

Language Aptitude in Young Learners: The Elementary Modern Language Aptitude Test in Spanish and Catalan

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**LANGUAGE APTITUDE IN YOUNG LEARNERS:
THE ELEMENTARY MODERN LANGUAGE
APTITUDE TEST IN SPANISH AND CATALAN**

Tesi doctoral presentada per

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Appendix A - Sample items from the MLAT-E (adapted from the SLTI website)

PART 1- HIDDEN WORDS

Part 1 of the MLAT-E has 30 items. This part of the MLAT requires the ability to associate sounds with symbols and depends somewhat on knowledge of English vocabulary. Each question below has a group of words. The word at the left of the group is not spelled in the usual way. Instead, it is spelled approximately as it is pronounced. The task of the pupil is to recognize the disguised word from the spelling. He or she needs to select one of the four words beside it that corresponds **most closely in meaning** to the disguised word.

- | | | |
|----------|--------------------|-----------------|
| 1. wntr | champion | season |
| | liquid | happy |
| 2. klen | brave | group of people |
| | a person who rules | not dirty |
| 3. pensl | used for writing | type of boat |
| | large bird | money |
| 4. snak | hard wood | to tease |
| | reptile | type of shoe |

Correct Answers:

1. **wntr** is a disguised spelling of **winter**, which is a **season**
2. **klen** is a disguised spelling of **clean**, which corresponds in meaning to **not dirty**
3. **pensl** is a disguised spelling of **pencil**, which is **used for writing**
4. **snak** is a disguised spelling of **snake**, a kind of **reptile**

PART 2- MATCHING WORDS

There are 30 questions in MLAT-E Part 2. The questions test recognition, analogy, and understanding of a far greater range of syntactic structures than the 4 sample questions shown here. Although knowledge of grammatical relationships is measured in this part, no explicit reference is made to grammatical terminology, so grammatical sensitivity is measured without measuring grammatical knowledge gained through formal instruction.

In each of the following questions, we call the first sentence the *key* sentence. One word in the *key* sentence will be underlined and printed in capital letters. The task is to select the word in the second sentence that plays the same role in that sentence as the underlined word in the *key* sentence.

1. Yesterday, Mary caught a FISH at the lake.

Cindy cut a cake with a knife.

2. Amy SANG a pretty song to her class.

James throws big rocks into the lake.

3. Peter got an ORANGE cat for his birthday.

My sister ate a big apple on Wednesday.

4. The furry DOG barked at us as we walked by.

Did John go to the store to get bread?

Correct Answers:

1. A mark would be put in the box beneath **cake**. In the first sentence, something was caught, and the thing that was caught was a FISH. In the second sentence, something was cut, and that thing was a **cake**.

2. A mark would be put in the box beneath **throws** because SANG in the first sentence and **throws** in the second sentence are both *the action* that occurs.

3. A mark would be put in the box beneath **big** because ORANGE in the first sentence *describes* the cat and **big** in the second sentence *describes* an apple .

4. A mark would be placed in the box beneath **John** because the first sentence is *about* a DOG and the second sentence is *about John*.

PART 3- FINDING RHYMES

There are 40 items in Part 3 of the MLAT-E. This portion of the test measures the pupils ability to hear and make distinctions between speech sounds. Some knowledge of English vocabulary is required for this part. In each of the questions below, the word in CAPS is called the *stimulus*. The pupils are asked to mark the box next to the word that best rhymes with the stimulus.

- | | | | | |
|---------------|------------|------------|-------------|-------|
| 1. TIME | tame | tide | dime | shin |
| 2. RAIN | vine | cane | keen | fine |
| 3. MEET | beat | mate | keep | might |
| 4. ROOT..... | foot | but | fruit | book |

Correct Answers:

1. **dime** 2. **cane** 3. **feat** 4. **fruit**

PART 4- NUMBER LEARNING

Part 4 of the MLAT-E has 25 possible points. This part of the MLAT tests auditory and memory abilities associated with sound-meaning relationships. In this part of the MLAT-E, the pupil will learn the names of numbers in a new language. Subsequently, he or she will hear the names of numbers spoken aloud, and will be asked to write down these numbers. For example, if you heard someone say the number "seventeen" in English, you would write down 17. But in this test, the pupil will hear the numbers in a new language. Here's how it will work:

The pupil will hear some instructions read aloud. The speaker will then teach him or her some numbers. The speaker will say something like:

[The red text represents the voice heard by the pupil.]

Now I will teach you some numbers in the new language. First, we will learn some single-digit numbers:

*"ba" is "one"
"baba" is "two"
"dee" is "three"*

Now I will say the name of the number in the new language, and you write down the number you hear. Try to do so before I tell you the answer:

*"ba" -- That was "one"
"dee" -- That was "three"
"baba" -- That was "two"*

Now we will learn some two-digit numbers:

*"tu" is "twenty"
"ti" is "thirty"*

"tu-ba" is "twenty-one" in this language -- because "tu" is twenty and "ba" is one. "ti-ba" is "thirty-one" -- because "ti" is thirty and "ba" is one.

Now let's begin. Write down the number you hear.

- a. ti-ba [you have only about 5 seconds to write down your answer]*
- b. ti-dee*
- c. baba*
- d. tu-dee*

Correct Answers:

- a. 31
- b. 33
- c. 2
- d. 23

Appendix B - Sample items from the MLAT-E (adapted from the SLTI website)

PARTE 1- PALABRAS OCULTAS

Part 1 of the MLAT-ES has 30 items. This part of the MLAT-ES requires the ability to associate sounds with symbols and depends somewhat on knowledge of Spanish vocabulary. Each question below has a group of words. The word at the left of the group is not spelled in the usual way. Instead, it is spelled approximately as it is pronounced. The task of the pupil is to recognize the disguised word from the spelling. He or she needs to select one of the four words beside it that corresponds **most closely in meaning** to the disguised word.

- | | | |
|------------|----------------------|----------|
| 1. bazo | parte del cuerpo | gordo |
| | inteligente | copa |
| 2. erbir | cocer | dominar |
| | sentir | hablar |
| 3. vever | empujar | tomar |
| | oír | conducir |
| 4. vallena | con mucha gente | peluca |
| | animal marino enorme | barbilla |

Correct Answers:

1. **bazo** is a disguised spelling of **vaso** (drinking glass), which corresponds in meaning to **copa** (drinking cup)
2. **erbir** is a disguised spelling of **hervir** (to boil), which corresponds in meaning to **cocer** (to cook)
3. **vever** is a disguised spelling of **beber** (to drink), which corresponds in meaning to **tomar** (to drink)
4. **vallena** is a disguised version of **ballena** (whale), which is an **animal marino enorme** (enormous marine animal)

PARTE 2- PALABRAS QUE SE CORRESPONDEN

There are 30 questions in MLAT-ES Part 2. The questions test recognition, analogy, and understanding of a far greater range of syntactic structures than the 4 sample questions shown here. Although knowledge of grammatical relationships is measured in this part, no explicit reference is made to grammatical terminology, so grammatical sensitivity is measured without measuring grammatical knowledge gained through formal instruction.

In each of the following questions, we call the first sentence the *key* sentence. One word in the *key* sentence will be underlined and printed in capital letters. The task is to select the word in the second sentence that plays the same role in that sentence as the underlined word in the key sentence.

1. Ayer, María rompió el VIDRIO.

Carolina cortó la torta con un cuchillo.

2. Beatriz CANTÓ una canción bonita a su clase.

Óscar tira piedras grandes al lago.

3. Pedro recibió un gato BLANCO por su cumpleaños.

Mi hermana comió una manzana grande el miércoles.

4. El PERRO peludo ladraba toda la noche.

¿Fue a la tienda Paco para comprar pan?

Correct Answers:

1. A mark would be put in the box beneath **torta**. In the first sentence, something was broken, and the thing that was broken was a VIDRIO (window). In the second sentence, something was cut, and that thing was a **torta** (cake).

2. A mark would be put in the box beneath **tira** because CANTÓ (sang) in the first sentence and **tira** (throws) in the second sentence are both *the action* that occurs.

3. A mark would be put in the box beneath **grande** because BLANCO (white) in the first sentence *describes* the cat and **grande** (big) in the second sentence *describes* an apple.

4. A mark would be placed in the box beneath **Paco** because the first sentence is *about* a PERRO (dog) and the second sentence is *about* **Paco**.

PARTE 3- PALABRAS QUE RIMAN

There are 40 items in Part III of the MLAT-ES. This portion of the test measures the pupil's ability to recognize distinctions between speech sounds. Some knowledge of Spanish vocabulary is required for this part. In each of the questions below, the word in CAPS is called the *stimulus*. The pupils are asked to mark the box next to the word that best rhymes with the stimulus.

1. YESO..... paso..... piso..... tropiezo..... ocio
2. AMIGO..... obligó..... ombligo..... refugio..... hormiga
3. TESORO... oro..... tijera..... caro..... sordo
4. BUENO..... tengo..... muerdo..... heno..... pino

Correct Answers:

- 1. tropiezo 2. ombligo 3. oro 4. heno**

PARTE 4- NÚMEROS EN OTRO IDIOMA

Part 4 of the MLAT-ES has 25 possible points. This part of the MLAT tests auditory and memory abilities associated with sound-meaning relationships. In this part of the MLAT-ES, the pupil will learn the names of numbers in a new language. Subsequently, he or she will hear the names of numbers spoken aloud, and will be asked to write down these numbers. For example, if you heard someone say the number "seventeen" in English, you would write down 17. But in this test, the pupil will hear the numbers in a new language. Here's how it will work:

The pupil will hear some instructions read aloud. The speaker will then teach him or her some numbers. The speaker will say something like:

[The red text represents the voice heard by the pupil.]

En esta parte de la prueba vamos a aprender los nombres de algunos números en un idioma distinto. Yo voy a decir el nombre de cada número. Ahora, a escuchar con mucha atención.

"ba" es "uno"

"baba" es "dos"

"dee" es "tres"

Ahora, yo voy a decir el nombre de unos números, y hay que escribir los números correspondientes.

"ba" -- "Uno" es la respuesta correcta.

"dee" -- "Tres" es la respuesta correcta.

"baba" -- "Dos" es la respuesta correcta.

Ahora, vamos a aprender los números para "veinte" y "treinta".

"tu" is "veinte"

"ti" is "treinta"

"tu-ba" es "veintiuno" en este idioma --porque "tu" es veinte y "ba" es uno. "ti-ba" es "treinta y uno" – porque "ti" es treinta y "ba" es uno.

Aquí vamos a hacer lo mismo que hicimos en los ejercicios de práctica: apenas yo diga las palabras hay que escribir el número correspondiente. Vamos a empezar.

a. ti-ba [the pupil has only about 5 seconds to write down each answer]

b. ti-dee

c. baba

d. tu-dee

Correct Answers:

a. 31

b. 33

c. 2

d. 23

Appendix C: Directions of the MLAT-EC on CD and sample items plus audio file

Benvinguts a aquesta prova d'aptitud per a llengües estrangeres. En aquesta prova jo seré el professor i tots junts llegirem les instruccions. Jo les llegiré en veu alta i cada un de vosaltres seguireu en silenci en el quadern de la prova el que llegeixi.

Part 1. Paraules ocultes.

Examinem aquestes paraules:

t-l-f-o-n

o-v-r-t

p-r-t-i-r

k-n-t-a-r

¿Què són realment aquestes paraules? A algunes els falta lletres i d'altres estan escrites de manera estranya. Els direm PARAULES OCULTES.

Això és el que són realment les dues primeres paraules:

t-l-f-o-n és telèfon

o-v-r-t és obert

Ara escriurem les altres dues paraules:

9 segons de pausa

p-r-t-i-r és “partir”

k-n-t-a-r és “cantar”

Com que ja tenim pràctica en trobar les “paraules ocultes”, vegem ara com es contesta aquesta part de la prova. Abans hem escrit la paraula oculta en l'espai en blanc. D'ara endavant seguirem descobrint la paraula oculta, però, en comptes d'escriure-la, posarem una X a la casella de la paraula o del grup de paraules que tenen el mateix significat que la paraula oculta. Per exemple:

Ja sabem que t-l-f-o-n és telèfon. Molt bé, doncs ara llegirem el que està a la dreta:

- un mes de l'any
- serveix per parlar
- bolígraf
- part del cos

2 segons de pausa

La casella que està al costat de les paraules “serveix per parlar” està marcada amb una X perquè és per això que serveix un telèfon. Ara passem a la pròxima paraula:

o-v-r-t

Sabem que és “obert”. Llegeix el que està a la dreta

- salt
- sense tancar
- animal petit
- color fosc

“Obert” vol dir “sense tancar”. Per això la casella que està al costat de “sense tancar” està marcada amb una X.

Ara practiquem amb aquestes paraules:

m-o-z-k

Llegeix el que està a la dreta i posa una X a la casella en què diu el que significa m-o-z-k.

8 segons de pausa

“Insecte” és la resposta correcta perquè la paraula oculta és “mosca”, que és un insecte. Passa a la pròxima paraula:

f- n- s- t- r- a

Posa una X a la casella al costat de les paraules que diuen el que és f-n-s-t-r-a.

8 segons de pausa

La resposta correcta és “deixar entrar la llum” perquè la paraula oculta és “finestra”, que serveix per deixar entrar la llum en una casa. Ara escolta amb molta atenció però sense passar encara a la pàgina següent. Quan jo digui, passa a la pàgina següent per fer exercicis com els que acabem de fer. Quan acabis la pàgina, passa a la següent. Procura fer tots els exercicis i si tens dubtes, has de marcar el que creguis millor. Treballa acuradament però ràpid. Endavant, passa la pàgina i comença a treballar.

315 segons de pausa = 5 minuts i 15 segons

Atura't. Hem acabat aquesta part de la prova. No passa res si t'han quedat exercicis per fer. Ara passem a la propera pàgina. Com abans, llegiré les instruccions en veu alta i cada un m'anireu seguint en silenci.

PART 2. PARAULES QUE ES CORRESPONEN

Ara llegiré les instruccions en veu alta. En aquesta part de la prova descobrirem les diferents funcions que poden tenir les paraules dins d'una frase. Ara llegirem el primer grup de frases fent especial atenció a les paraules escrites en majúscules. A aquestes paraules els direm “PARAULES CLAU”.

1. La MARIA menja pastanagues.
“Maria” és la paraula clau perquè està escrita en majúscules.
2. El distret d'en PERE es vam emportar el meu barret
En aquesta frase, “Pere” és la paraula clau.
3. L'Alícia està pelant una poma.
4. L'ocell es banya a la font
5. La tassa del nen va caure.

Ara escolta les instruccions amb molta atenció. Tornem a la frase número 1, “La Maria menja pastanagues”. La paraula clau es refereix a la persona o cosa que “fa” alguna cosa. És a dir, que realitza l'acció en aquesta frase. És la paraula que contesta la pregunta “qui o què menja pastanagues?”. La Maria menja pastanagues. Per tant, la resposta és “Maria”.

Passem ara a la frase número 2.

“El distret d'en PERE es vam emportar el meu barret”

Aquí també la paraula clau es refereix a la persona o cosa que fa alguna cosa. És la paraula que contesta la pregunta “Qui o què es va emportar el meu barret?”. En Pere es va emportar el meu barret. Per tant, la resposta és “Pere”.

Ara farem una pregunta semblant per a les altres frases. En la número 3, la pregunta és “Qui o què està pelant una poma?”. La resposta és “Alícia”.

En la número 4 , “Qui o què es banya a la font?” La resposta és “ocell”.
En la número 5, la pregunta és “Qui o què va caure?”. La resposta és “tassa”.

Per tant, veiem que encara que aquestes paraules siguin diferents, totes tenen la mateixa funció dins de la seva frase. Ara mira a la dreta, on hi diu:

A. “La Susanna va trencar un got”
“Susanna” és la paraula clau.

Ara llegeix la frase de sota.
“El meu gos menja galetes”.

Quina paraula d’aquesta frase es correspon a “Susanna”? És a dir, quina paraula té la mateixa funció que la paraula “Susanna” en la primera frase?

Has de trobar aquesta paraula i marcar la casella de sota d’aquesta paraula amb una X.

10 segons de pausa

La resposta correcta és “gos”. Per què és la resposta correcta? Bé, examinem la primera frase: “La Susanna va trencar un got”. “Susanna” és la paraula que contesta la pregunta “Què o qui fa o va fer alguna cosa”.

A la segona frase, “El meu gos menja galetes”, hem de trobar la paraula que contesta la mateixa pregunta “què o qui fa o va fer alguna cosa”. La resposta és “gos”. Per tant, posarem una X a sota de la paraula “gos”.

Ara farem el problema de l’exemple B, que està just a sota. Endavant, comença.

12 Segons de pausa

La resposta correcta és “taronges”.

Ara examinarem el proper grup de frases, que us ensenyarà una altra de les funcions que tenen les paraules. En aquestes frases, les paraules clau indiquen “el que es fa”. És a dir, indiquen l’acció que hi ha a la frase.

Bé, llegim aquestes frases.

La número 1 és “En Pau VENGUÉ la seva raqueta de tennis”.

La paraula clau, “vengué”, ens indica “el que es va fer”, és a dir, l’acció que es va fer en aquesta frase, “algú vengué alguna cosa”.

En la número 2, alguna cosa “caigué”; en la número 3, alguna cosa “brilla”, en la número 4 algunes coses “volen”, i en la número 5 algú “escriurà”. Ara practicarem una mica, com ja hem fet abans. Passem a l’exemple que està a la dreta, l’exemple A

“L’Enric TIRÀ una pedra gran”
“La Sandra va en bicicleta.”

Quina paraula de la segona frase indica l’acció o el que es fa en aquesta frase? Posa una X a la casella que està a sota d’aquesta paraula.

12 segons de pausa

La resposta correcta és “va” perquè aquesta paraula correspon a “tirà” i es refereix “al que es fa. Fes ara l’exemple B, que està just a sota. Endavant, comença.

12 segons de pausa

La resposta correcta és “guanyarà”.

Ara passem al següent grup de frases, que ens mostra una altra funció de les paraules. La primera frase és “La gallina VERMELLA va pondre un ou”. Si ens fixem en les paraules clau d’aquestes frases veurem que totes tenen la mateixa funció. La primera frase es refereix a una gallina, i la paraula clau ens diu “com” és la gallina. És una gallina “vermella”.

La frase número 2 és sobre un home i la paraula clau ens diu “com” és aquest home. És “ros”.

En la número 3 es parla d’un llibre i la paraula clau indica “com” és el llibre. És “gran”.

En la número 4 es parla d’una cançó i la paraula clau ens diu “com” és la cançó. És “alegre”.

L’última frase es refereix a un escriptori i la paraula clau ens diu “com” és l’escriptori. És “pesat”.

Ara mirarem l’exemple A, que està a la dreta i intentarem trobar la paraula que es correspongui. “El nen més ALT és el meu germà”

“Vull comprar panets dolços”

Quina paraula de la segona frase té la mateixa funció que té la paraula “alt” a la primera? Posa una X a sota de la resposta.

12 segons de pausa.

“Dolços” és la paraula correcta perquè a la primera frase, la paraula que diu “com” és el nen és la paraula “alt” i en la segona, la paraula que diu “com” són els panets és “dolços”.

Fes ara l’exemple B, que està just a sota. Endavant, comença.

12 segons de pausa.

La resposta correcta és “nou”.

Ara examinarem l’últim grup de frases, que mostra una altra funció de les paraules. La primera frase és “Vostè va pelar la POMA”. Ens hem de fixar en què en aquesta frase es fa o es va fer alguna cosa, i la paraula clau ens diu a qui o a què se li va fer aquesta cosa. És a dir, qui o què va rebre l’acció.

En la primera frase “algú va pelar alguna cosa”.

- Què va pelar?

- La poma.

En la segona frase “algú escolta alguna cosa”.

- Què escolta?

- Música.

En la tercera frase es vol menjar alguna cosa.

- Menjar què?

- Pastís.

A la frase número 4 algú va agafar algú.

- Qui es va agafar?

- El lladre

A la frase número 5 algú va obrir alguna cosa.

- Què va obrir?

- Una finestra.

Ara passem a l’exemple A, que està a la dreta, i intentarem trobar la paraula que correspongui.

“En Pere em va portar bombons”
“El gat matà un ratolí”.

Quina paraula de la segona frase té la mateixa funció que “bombons” a la primera? Posa una X a sota de la resposta.

12 segons de pausa

“Ratolí” és la resposta correcta perquè la paraula “bombons” de la primera frase és el que en Pere va portar i en la segona “ratolí” és el que va matar el gat.

Fes ara l'exemple B, que està just a sota. Endavant, comença.

12 segons de pausa.

La resposta correcta és “carta”.

Ara escolteu amb molta atenció i no passeu a la propera pàgina fins que jo ho digui. Seguirem treballant amb exercicis com els que acabem de fer. Per poder treballar aquests exercicis, el primer que s'ha de fer és descobrir “quin” tipus de problema és. És a dir, heu de mirar la paraula clau de la primera frase i decidir quina funció té en aquella frase. Després heu de llegir la segona frase, per descobrir la paraula que es correspon amb la paraula clau; és a dir, la paraula que té la mateixa funció que la paraula clau de la primera frase.

Torno a repetir: llegiu la primera frase, trobeu la paraula clau, decidiu la funció de la paraula clau, i llavors heu de trobar la paraula que es correspon a la paraula clau de la primera frase. Molt bé, passem a la propera pàgina i treballem fins al final d'aquesta part o fins que jo digui que heu de parar. Endavant, passeu a la pàgina següent.

18 minuts i 45 segons de pausa.

Atura't. Hem arribat al final d'aquesta part. Passa a la pàgina següent, on comença la part 3, “Paraules que rimen”.

PART 3. PARAULES QUE RIMEN

Aquesta part de la prova consisteix a trobar les paraules que millor rimen.

Si a l'hora d'escriure un poema tinguéssim escrit el següent:

“Vaig veure un alegre ocellet
al bell mig d'un _____”

Amb quina d'aquestes quatre paraules ompliríem el buit?

riu..... riuet bosc castell

La paraula *riuet* és la que millor rima amb OCELLET. Per assenyalar que hauríem d'escollir *riuet* posarem una X a la casella que està al costat de *riuet*.

Ara practiquem a veure si trobem les paraules que rimen. Mirem la paraula ROSA, que està més avall. Després llegirem les quatre paraules que estan a la dreta. Quina paraula rima amb ROSA?

ROSA..... cosa riure passa..... tassa

Cosa és la paraula que rima millor amb ROSA, així que la marcarem amb una X a la casella.

Ara assajarem amb aquestes paraules:

SABATILLA tela cartilla palla parella

Cartilla és la paraula que rima amb SABATILLA, així que hauríem d’haver marcat amb una X la casella que està al costat de cartilla.

Ara cadascú pel seu compte farà les altres tres paraules. Endavant, comenceu.

20 segons de pausa

Molt bé. Les respostes correctes són les següents:

Per a la paraula CAVALL, la resposta correcta és “treball”, l’última paraula. Per a “emoció” la resposta és “passió”, la tercera paraula. I per a “núvol”, la resposta correcta és cúmul, la quarta paraula. Fixeu-vos que hi ha paraules que rimen tot i que no s’escriuen ni es pronuncien exactament igual. Per exemple, CAVALL rima amb *treball*, EMOCIÓ rima amb *passió*, i NÚVOL rima amb *cúmul*.

Les preguntes d’aquesta part de la prova són com les que acabem de fer. Ara escolteu amb molta atenció i no passeu a la pàgina següent encara. Quan jo ho digui, passarem a la pàgina següent per treballar les paraules d’aquella pàgina. Quan acabeu d’aquesta pàgina heu de passar a la pàgina que segueix. Heu d’intentar fer totes les paraules. Si dubteu en alguna, heu de marcar la que soni millor.

Molt bé, endavant, passeu a la pàgina següent i comenceu.

7 minuts i 42 segons de pausa. 462 segons

Atureu-vos. Hem acabat aquesta part. No passa res si han quedat paraules per fer. Ara passem a l’exercici següent, on hi diu “Números en un altre idioma”, perquè ara aprendrem números en un altre idioma. Passem ara a la pàgina següent.

PART 4. NÚMEROS EN UN ALTRE IDIOMA

En aquesta part de la prova, aprendrem números en un idioma diferent del nostre. Jo diré el nom de cada número i després el repetireu en veu alta. Ara practicarem una estona i després diré els números una altra vegada i cadascú els escriurà en els espais corresponents. Ara, escolteu amb molta atenció.

“Co” és 1.

El nom del número 1 és “Co”.

Quan un sent la paraula “Co” ja sap que vol dir 1.

“Vein” és 2.

El nom del número 2 és “Vein”

Quan un sent la paraula “Vein” ja sap que vol dir 2.

“Ral” és 3

El nom del número 3 és “Ral”.

Quan un sent la paraula “Ral” ja sap que vol dir 2.

Ara practicarem una mica. Jo diré una paraula i cadascú dirà en veu alta quin número és.

“Ral”. Quin número és? Digueu-lo.

Efectivament, és 3.

Ara farem la prova amb aquests números.

“Co”.

5 segons de pausa

Sí, és 1

“Vein”.

5 segons de pausa

Sí, és 2.

Bé, seguim practicant. Jo diré una paraula i cadascú de vosaltres dirà quin número és.

“Co”

5 segons de pausa

Sí, és 1.

“Vein”

5 segons de pausa

Sí, és 2.

“Ral”

5 segons de pausa

Sí, és 3.

Ara practicarem d'una manera una mica diferent. Jo diré la paraula però, aquesta vegada, en comptes de dir la paraula en veu alta, l'escriureu en l'espai en blanc de l'exercici de pràctica número 1. Som-hi. Per exemple, la lletra a) és “ral”. És per això que a l'espai de la resposta hi ha escrit el número 3. Després de dir cada número, donaré temps per escriure'l i llavors donaré la resposta correcta.

b. “Co”

5 segons de pausa.

“1” és la resposta correcta. Per això hauríeu d'haver escrit el número 1 a l'espai de la lletra b).

c. “Vein”

5 segons de pausa.

“2” és la resposta correcta

d. “Ral”

5 segons de pausa.

“3” és la resposta correcta.

e. “Vein”.

5 segons de pausa.

“2” és la resposta correcta.

f. “Co”

5 segons de pausa.

“1” és la resposta correcta.

Ara aprendrem els noms dels números 10, 20 i 30.

“Silca” és 10.

El nom del número 10 és “Silca”.

Quan un sent la paraula “Silca” ja sap que vol dir 10.

“Vinca” és 20.

El nom del número 20 és “Vinca”

Quan un sent la paraula “Vinca” ja sap que vol dir 20.

“Ralca” és 30

El nom del número 30 és “Ralca”.

Quan un sent la paraula “Ralca” ja sap que vol dir 30.

Ara farem l'exercici de pràctica 2. Quan jo digui la paraula heu d'escriure el número en l'espai en blanc. Per exemple, la lletra a) és “vinca” i per això el número 20 està escrit en l'espai en blanc.

Seguim:

b) “Silca”

5 segons de pausa

10 és la resposta correcta

C) “Ralca”

5 segons de pausa

30 és la resposta correcta

d) “Vinca”

5 segons de pausa

20 és la resposta correcta

e) “Silca”

10 és la resposta correcta.

5 segons de pausa

f) “Ralca”

5 segons de pausa

30 és la resposta correcta

Ara practicarem ajuntant els números. Per exemple, saben que Silca és “10” i que “Ral” és tres. O sigui que si jo dic Silca-Ral vol dir 13.

Sabem que “Ralca” és 30 i que “Vein” és 2. Llavors, si dic Ralca-Vein vol dir 32.

Passem ara a l'exercici de pràctica número 3. La lletra a) és “Vinca-Co”, o sigui, “21”. Per això s'ha escrit el número “21” a l'espai per a la resposta. La b) és “Vein”, és a dir, “2”, per això s'ha escrit el número 2. Ara heu d'escriure els números per a les següents paraules.

c) “Vinca-Vein”

5 segons de pausa

22 és la resposta correcta

d) “Silca-Co”

5 segons de pausa

11 és la resposta correcta

e) “Ralca”

5 segons de pausa

30 és la resposta correcta

f) “Silca-Vein”

5 segons de pausa

12 és la resposta correcta.

Ara passem a la pàgina següent. Aquí farem el mateix que als exercicis de pràctica. Quan jo digui les paraules heu d'escriure el número corresponent. Endavant, comencem.

a) Vinca-ral

- 10 segons de pausa
- b) Vein
- 10 segons de pausa
- c) Silca-co
- 10 segons de pausa
- d) Ralca-ral
- 10 segons de pausa
- e) Vinca-co
- 10 segons de pausa
- f) Ral
- 10 segons de pausa
- g) Silca-vein
- 10 segons de pausa
- h) Ralca
- 10 segons de pausa
- i) Vinca-vein
- 10 segons de pausa
- j) Co
- 10 segons de pausa
- k) Ralca-co
- 10 segons de pausa
- l) Vinca
- 10 segons de pausa
- m) Ralca-vein
- 10 segons de pausa
- n) Silca
- 10 segons de pausa
- o) Silca-ral
- 10 segons de pausa
- p) Ralca-ral
- 10 segons de pausa
- q) Vinca-co
- 10 segons de pausa
- r) Silca-vein
- 10 segons de pausa
- s) Vinca-vein
- 10 segons de pausa
- t) Silca-ral
- 10 segons de pausa
- u) Ralca-vein
- 10 segons de pausa
- v) Vinca-ral
- 10 segons de pausa
- w) Silca-co
- 10 segons de pausa
- x) Vinca
- 10 segons de pausa
- y) Vein

Sample items from the MLAT-EC

PART 1- PARAULES OCULTES

- | | | |
|------------|----------------------|--------------------|
| 1. tlfon | un mes de l'any | serveix per parlar |
| | bolígraf | part del cos |
| 2. ovrtr | salt | sense tancar |
| | animal petit | color fosc |
| 3. mozkr | moble | tipus d'armari |
| | cançó | insecte |
| 4. fnstrar | deixa entrar la llum | planta tropical |
| | estima els nens | bonica |

Correct Answers:

1. **tlfon** is a disguised spelling of **telèfon** (telephone), which corresponds in meaning to **serveix per parlar** (it is used to talk)
2. **ovrtr** is a disguised spelling of **overt** (open), which corresponds in meaning to **sense tancar** (without closing)
3. **mozkr** is a disguised spelling of **mosca** (fly), which corresponds in meaning to **insecte** (insect)
4. **fnstrar** is a disguised version of **finestra** (window), which corresponds in meaning to **deixa entrar la llum** (lets the light in)

PART 2- PARAULES QUE ES CORRESPONEN

1. Ahir el dentista m'arrencà un QUEIXAL

L'Alfred escriurà una carta llarga.

2. L'Enric TIRÀ una pedra gran.

La Sandra va en bicicleta.

3. La Joana duia un barret VERD.

L'Àlex vol uns patins nous.

4. La SUSANNA va trencar un got.

El meu gos menja galetes.

Correct Answers:

1. A mark would be put in the box beneath **carta**. In the first sentence, something was taken out, and the thing that was taken was a QUEIXAL (molar). In the second sentence, something was written, and that thing was a **carta** (letter).

2. A mark would be put in the box beneath **va** because TIRÀ (threw away) in the first sentence and **va** (goes) in the second sentence are both *the action* that occurs.

3. A mark would be put in the box beneath **nous** because VERD (green) in the first sentence *describes* the hat and **nous** (new) in the second sentence *describes* the skaters.

4. A mark would be placed in the box beneath **gos** (cat) because the first sentence is *about* a SUSANNA (Suzanne) and the second sentence is *about my cat*.

PART 3 – PARAULES QUE RIMEN

SABATILLA	<input type="checkbox"/> tela	<input type="checkbox"/> cartilla.....	<input type="checkbox"/> palla.....	<input type="checkbox"/> parella
CAVALL	<input type="checkbox"/> cabell.....	<input type="checkbox"/> tortell	<input type="checkbox"/> portal.....	<input type="checkbox"/> treball
EMOCIÓ	<input type="checkbox"/> carreró.....	<input type="checkbox"/> passió.....	<input type="checkbox"/> oci	<input type="checkbox"/> ordinador
NÚVOL	<input type="checkbox"/> mussol.....	<input type="checkbox"/> cúmul.....	<input type="checkbox"/> rierol.....	<input type="checkbox"/> volta

Correct Answers:

1. cartilla 2. treball 3. passió 4. cúmul

Appendix D – Graphical representations of the alveolar fricative phonemes in Catalan

<S>	<Z>
Between vowels	
Generally, <s>: <i>base, brisa, brusa, etc.</i>	<z>: • In borrowings (mainly from Greek and semitic nouns): <i>amazona, azalea, bizantí, etc.</i> • In some learned formants: <i>esquizofrènia, paleozoic, protozou</i>
Syllable openings (not between vowels)	
<s>: • In the words: <i>endinsar</i> and <i>enfonsar</i> • In the prefix <i>trans-</i> : <i>transatlàntic, transoceànic</i>	Generally, <z>: <i>zebra, zero, zinc, alzina, colze, etc.</i>
Syllable endings	
Generally, <s>: <i>abisme, besnét, desdir, etc.</i>	<z>: • In borrowings: <i>puzle, uzbek</i> • In foreign words: <i>Uzbekistan</i>

Table D.1. Grapheme distribution of the voiced alveolar fricative phoneme /z/ adapted from the *Gramàtica Catalana de l'Institut d'Estudis Catalans*

s	ss	c (before e, i)	ç (before a, o, u)
In syllable openings (at the beginning of a word)			
Generally, <s>: • At the absolute beginning of a word: <i>sal, se, si, so, suc</i> • After consonant: <i>csi, psalm</i>	<c> at the absolute beginning of a word before <e> or <i>: <i>cel, cella, cim, etc.</i>	<ç> in the words <i>ça</i> and <i>ço</i>	
In syllable openings (between vowels)			
<s>: • In compound words, at the beginning of the second component: <i>adéu-siau, gira-sol, etc.</i> • Words with a prefix in front of the root: <i>asimètric, presocràtic</i>	Generally, <ss>: • In simple words: <i>missa, tassa</i> • In derivative of a root beginning with <s> with the prefixes <i>a-</i> (not negative), <i>des-</i> and <i>dis-</i> (negative), <i>re-</i> : <i>assaltar, dessalar, ressò</i>	<c> before <e> and <i>: <i>acer, decidir, soci, etc.</i>	<ç> before <a, o, u> in words such as <i>peça, veçot, traçut</i>
<s ss c> (before e, i) <ç> (before a, o, u) in syllable openings (within a word, not between vowels)			
Generally, <s>: <i>cursa, dansa, etc.</i>	<ss> in words beginning with <i>sots-</i> , <i>trans-</i> before <s->: <i>sotssecretari, transsiberià</i>	<c> before <e, i> in words such as <i>enciam, sincer, etc.</i>	<ç> before <a, o, u>: • In words such as <i>cançó, dolça, vençut</i> • In the suffix <i>-nça</i> of nouns derived from verbs: <i>lloança, temença</i>
In syllable closings (within words)			
Generally, <s>: <i> festa, gastar, gespa, etc.</i>			
In syllable closings (at the end of words)			
Generally, <s>: • At the end of a root: <i>cas, dors, vals, etc.</i> • In nominal inflectional suffixes (<i>coves, nous, etc.</i>) and verbal inflectional suffixes: <i>deus, dorms, prens, etc.</i> • In inflectional suffixes: <i>francès, pedrís, porós</i>		<ç> in words which have the stress on the last syllable: • After vowel: - in non-inflectional adjectives: <i>capaç, feliç, precoç, etc.</i> - in nouns derived from verbs: <i>adreç, balbuç, endreç, etc.</i> - in some nouns <i>arboç, braç, llaç, etc.</i> • After <l, n, r> in words such as <i>calç, llenç, marc, etc.</i>	

Table D.2. Grapheme distribution of the unvoiced alveolar fricative phonemes /s/ adapted from the *Gramàtica Catalana de l'Institut d'Estudis Catalans*

Item	Grade	A	B	C	D	right answers	right option	missing	attempts	N	doubl IF	IF - A	IF - B	IF - C	IF - D	
1	3	7	0	53	3	53 C		3	63	66	0	0.78836	-0.185185	-0.333333	0.78836	-0.269841
1	4	11	1	55	2	55 C		6	69	75	0	0.729469	-0.120773	-0.31401	0.729469	-0.294686
1	5	5	3	43	2	43 C		4	53	57	0	0.748428	-0.207547	-0.257862	0.748428	-0.283019
1	6	4	1	52	1	52 C		2	58	60	0	0.862069	-0.241379	-0.310345	0.862069	-0.310345
1	7	4	0	60	0	60 C		3	64	67	0	0.916667	-0.25	-0.333333	0.916667	-0.333333
1 all		31	5	263	8	263 C		18	307	325	0	0.808903	-0.198697	-0.311618	0.808903	-0.298588
2	3	2	1	11	40	40 D		12	54	66	0	0.654321	-0.283951	-0.308642	-0.061728	0.654321
2	4	2	1	7	59	59 D		6	69	75	0	0.806763	-0.294686	-0.31401	-0.198068	0.806763
2	5	3	0	6	46	46 D		2	55	57	0	0.781818	-0.260606	-0.333333	-0.187879	0.781818
2	6	2	0	10	45	45 D		3	57	60	0	0.719298	-0.28655	-0.333333	-0.099415	0.719298
2	7	1	0	9	55	55 D		2	65	67	0	0.794872	-0.312821	-0.333333	-0.148718	0.794872
2 all		10	2	43	245	245 D		25	300	325	0	0.755556	-0.288889	-0.324444	-0.142222	0.755556
3	3	2	60	3	0	60 B		1	65	66	0	0.897436	-0.292308	0.897436	-0.271795	-0.333333
3	4	3	68	2	0	68 B		2	73	75	0	0.908676	-0.278539	0.908676	-0.296804	-0.333333
3	5	0	54	1	1	54 B		1	56	57	0	0.952381	-0.333333	0.952381	-0.309524	-0.309524
3	6	0	59	0	0	59 B		1	59	60	0	1	-0.333333	1	-0.333333	-0.333333
3	7	1	66	0	0	66 B		0	67	67	0	0.9801	-0.313433	0.9801	-0.333333	-0.333333
3 all		6	307	6	1	307 B		5	320	325	0	0.945833	-0.308333	0.945833	-0.308333	-0.329167
4	3	13	38	2	2	38 B		11	55	66	0	0.587879	-0.018182	0.587879	-0.284848	-0.284848
4	4	8	60	2	2	60 B		3	72	75	0	0.777778	-0.185185	0.777778	-0.296296	-0.296296
4	5	2	52	0	1	52 B		2	55	57	0	0.927273	-0.284848	0.927273	-0.333333	-0.309091
4	6	4	54	0	0	54 B		2	58	60	0	0.908046	-0.241379	0.908046	-0.333333	-0.333333
4	7	0	65	1	0	65 B		1	66	67	0	0.979798	-0.333333	0.979798	-0.313131	-0.333333
4 all		27	269	5	5	269 B		19	306	325	0	0.83878	-0.215686	0.83878	-0.311547	-0.311547
5	3	53	1	0	2	53 A		10	56	66	0	0.928571	0.928571	-0.309524	-0.333333	-0.285714
5	4	71	2	1	0	71 A		1	74	75	0	0.945946	0.945946	-0.297297	-0.315315	-0.333333
5	5	49	1	1	1	49 A		5	52	57	0	0.923077	0.923077	-0.307692	-0.307692	-0.307692
5	6	57	0	1	0	57 A		2	58	60	0	0.977011	0.977011	-0.333333	-0.310345	-0.333333
5	7	65	1	0	0	65 A		1	66	67	0	0.979798	0.979798	-0.313131	-0.333333	-0.333333
5 all		295	5	3	3	295 A		19	306	325	0	0.95207	0.95207	-0.311547	-0.320261	-0.320261
6	3	6	3	29	2	29 C		26	40	66	0	0.633333	-0.133333	-0.233333	0.633333	-0.266667
6	4	9	3	41	4	41 C		18	57	75	0	0.625731	-0.122807	-0.263158	0.625731	-0.239766
6	5	2	3	40	2	40 C		10	47	57	0	0.801418	-0.276596	-0.248227	0.801418	-0.276596
6	6	5	3	38	4	38 C		10	50	60	0	0.68	-0.2	-0.253333	0.68	-0.226667
6	7	1	0	57	3	57 C		6	61	67	0	0.912568	-0.311475	-0.333333	0.912568	-0.26776

6 all		23	12	205	15	205 C	70	255	325	0	0.738562	-0.213072	-0.270588	0.738562	-0.254902
7	3	9	22	13	6	22 B	16	50	66	0	0.253333	-0.093333	0.253333	0.013333	-0.173333
7	4	8	38	14	6	38 B	9	66	75	0	0.434343	-0.171717	0.434343	-0.050505	-0.212121
7	5	5	33	10	5	33 B	4	53	57	0	0.496855	-0.207547	0.496855	-0.081761	-0.207547
7	6	2	37	11	8	37 B	2	58	60	0	0.517241	-0.287356	0.517241	-0.08046	-0.149425
7	7	0	52	10	4	52 B	1	66	67	0	0.717172	-0.333333	0.717172	-0.131313	-0.252525
7 all		24	182	58	29	182 B	32	293	325	0	0.494881	-0.224118	0.494881	-0.069397	-0.201365
8	3	38	1	1	11	38 A	15	51	66	0	0.660131	0.660131	-0.30719	-0.30719	-0.045752
8	4	57	1	0	10	57 A	7	68	75	0	0.784314	0.784314	-0.313725	-0.333333	-0.137255
8	5	43	2	2	5	43 A	5	52	57	0	0.769231	0.769231	-0.282051	-0.282051	-0.205128
8	6	44	1	3	9	44 A	3	57	60	0	0.695906	0.695906	-0.309942	-0.263158	-0.122807
8	7	56	1	1	3	56 A	5	62	67	1	0.870968	0.876344	-0.306452	-0.306452	-0.263441
8 all		238	6	7	38	238 A	35	290	325	1	0.76092	0.762069	-0.304598	-0.3	-0.157471
9	3	3	2	5	42	42 D	14	52	66	0	0.74359	-0.25641	-0.282051	-0.205128	0.74359
9	4	2	1	3	62	62 D	7	68	75	0	0.882353	-0.294118	-0.313725	-0.27451	0.882353
9	5	1	1	2	50	50 D	3	54	57	0	0.901235	-0.308642	-0.308642	-0.283951	0.901235
9	6	2	3	1	50	50 D	4	56	60	0	0.857143	-0.285714	-0.261905	-0.309524	0.857143
9	7	0	1	1	62	62 D	3	64	67	0	0.958333	-0.333333	-0.3125	-0.3125	0.958333
9 all		8	8	12	266	266 D	31	294	325	0	0.873016	-0.297052	-0.297052	-0.278912	0.873016
10	3	4	2	1	40	40 D	19	47	66	0	0.801418	-0.219858	-0.276596	-0.304965	0.801418
10	4	3	3	2	59	59 D	8	67	75	0	0.840796	-0.273632	-0.273632	-0.293532	0.840796
10	5	2	5	0	47	47 D	3	54	57	0	0.82716	-0.283951	-0.209877	-0.333333	0.82716
10	6	1	4	0	53	53 D	2	58	60	0	0.885057	-0.310345	-0.241379	-0.333333	0.885057
10	7	2	3	0	59	59 D	3	64	67	0	0.895833	-0.291667	-0.270833	-0.333333	0.895833
10 all		12	17	3	258	258 D	35	290	325	0	0.852874	-0.278161	-0.255172	-0.31954	0.852874
11	3	5	24	24	0	24 B	13	53	66	0	0.27044	-0.207547	0.27044	0.27044	-0.333333
11	4	1	33	24	3	33 B	14	61	75	0	0.387978	-0.311475	0.387978	0.191257	-0.26776
11	5	2	39	11	2	39 B	3	54	57	0	0.62963	-0.283951	0.62963	-0.061728	-0.283951
11	6	2	42	12	2	42 B	2	58	60	0	0.632184	-0.287356	0.632184	-0.057471	-0.287356
11	7	0	52	4	10	52 B	10	57	67	1	0.883041	-0.385965	0.830409	-0.292398	-0.152047
11 all		10	190	75	7	190 B	42	283	325	1	0.561837	-0.285041	0.563015	0.021201	-0.299176
12	3	22	0	16	12	12 D	24	42	66	0	0.047619	0.301587	-0.396825	0.111111	-0.015873
12	4	28	1	3	29	29 D	14	61	75	0	0.300546	0.278689	-0.311475	-0.26776	0.300546
12	5	23	1	3	26	26 D	4	53	57	0	0.320755	0.245283	-0.308176	-0.257862	0.320755
12	6	19	0	0	35	35 D	5	55	60	0	0.515152	0.133333	-0.327273	-0.327273	0.521212
12	7	16	0	1	47	47 D	3	64	67	0	0.645833	0	-0.333333	-0.3125	0.645833

12 all	108	3	11	153	153 D	50	275	325	0	0.408485	0.190303	-0.318788	-0.28	0.408485	
13	3	0	51	3	1	51 B	11	55	66	0	0.90303	-0.333333	0.90303	-0.260606	-0.309091
13	4	4	64	1	1	64 B	5	70	75	0	0.885714	-0.257143	0.885714	-0.314286	-0.314286
13	5	1	52	0	2	52 B	2	55	57	0	0.927273	-0.309091	0.927273	-0.333333	-0.284848
13	6	2	55	0	0	55 B	3	57	60	0	0.953216	-0.28655	0.953216	-0.333333	-0.333333
13	7	1	63	0	1	63 B	2	65	67	0	0.958974	-0.312821	0.958974	-0.333333	-0.312821
13 all	8	285	4	5	285 B	23	302	325	0	0.924945	-0.298013	0.924945	-0.315673	-0.311258	
14	3	27	4	9	3	27 A	23	43	66	0	0.503876	0.503876	-0.209302	-0.054264	-0.24031
14	4	44	2	13	5	44 A	11	64	75	0	0.583333	0.583333	-0.291667	-0.0625	-0.229167
14	5	41	1	4	4	41 A	7	50	57	0	0.76	0.76	-0.306667	-0.226667	-0.226667
14	6	48	2	6	1	48 A	3	57	60	0	0.789474	0.789474	-0.28655	-0.192982	-0.309942
14	7	58	0	4	1	58 A	4	63	67	0	0.89418	0.89418	-0.333333	-0.248677	-0.312169
14 all	218	9	36	14	218 A	48	277	325	0	0.716005	0.716005	-0.290012	-0.160048	-0.265945	
15	3	1	0	45	4	45 C	16	50	66	0	0.866667	-0.306667	-0.333333	0.866667	-0.226667
15	4	1	1	59	7	59 C	7	68	75	0	0.823529	-0.313725	-0.313725	0.823529	-0.196078
15	5	2	0	45	5	45 C	4	53	57	1	0.798742	-0.27673	-0.327044	0.805031	-0.201258
15	6	0	0	50	7	50 C	3	57	60	0	0.836257	-0.333333	-0.333333	0.836257	-0.169591
15	7	1	0	61	4	61 C	1	66	67	0	0.89899	-0.313131	-0.333333	0.89899	-0.252525
15 all	2	5	260	27	260 C	31	294	325	2	0.845805	-0.324263	-0.310658	0.845805	-0.210884	
16	3	1	2	0	39	39 D	24	42	66	0	0.904762	-0.301587	-0.269841	-0.333333	0.904762
16	4	0	2	0	64	64 D	9	66	75	0	0.959596	-0.333333	-0.292929	-0.333333	0.959596
16	5	1	2	0	52	52 D	2	55	57	0	0.927273	-0.309091	-0.284848	-0.333333	0.927273
16	6	0	2	0	56	56 D	2	58	60	0	0.954023	-0.333333	-0.287356	-0.333333	0.954023
16	7	0	1	0	64	64 D	2	65	67	0	0.979487	-0.333333	-0.312821	-0.333333	0.979487
16 all	2	9	0	275	275 D	39	286	325	0	0.948718	-0.324009	-0.291375	-0.333333	0.948718	
17	3	12	23	4	3	23 B	24	42	66	0	0.396825	0.047619	0.396825	-0.206349	-0.238095
17	4	19	36	0	4	36 B	16	59	75	0	0.480226	0.096045	0.480226	-0.333333	-0.242938
17	5	7	38	2	5	38 B	5	52	57	0	0.641026	-0.153846	0.641026	-0.282051	-0.205128
17	6	21	29	1	2	29 B	7	53	60	0	0.396226	0.194969	0.396226	-0.308176	-0.283019
17	7	16	43	0	4	43 B	4	63	67	0	0.57672	0.005291	0.57672	-0.333333	-0.248677
17 all	75	169	7	18	169 B	56	269	325	0	0.504337	0.038414	0.504337	-0.298637	-0.244114	
18	3	40	2	1	1	40 A	22	44	66	0	0.878788	0.878788	-0.272727	-0.30303	-0.30303
18	4	64	1	0	1	64 A	9	66	75	0	0.959596	0.959596	-0.313131	-0.333333	-0.313131
18	5	51	1	1	0	51 A	4	53	57	0	0.949686	0.949686	-0.308176	-0.308176	-0.333333
18	6	55	0	0	0	55 A	5	55	60	0	1	1	-0.333333	-0.333333	-0.333333
18	7	65	0	0	0	65 A	2	65	67	0	1	1	-0.333333	-0.333333	-0.333333

18 all	275	4	2	2	275 A	42	283	325	0	0.962309	0.962309	-0.314488	-0.32391	-0.32391	
19	3	2	8	16	4	8 B	36	30	66	0	0.022222	-0.244444	0.022222	0.377778	-0.155556
19	4	4	29	24	2	29 B	16	59	75	0	0.322034	-0.242938	0.322034	0.20904	-0.288136
19	5	1	31	19	1	31 B	4	53	57	1	0.446541	-0.301887	0.45283	0.150943	-0.301887
19	6	3	40	9	0	40 B	8	52	60	0	0.692308	-0.25641	0.692308	-0.102564	-0.333333
19	7	1	52	10	0	52 B	4	63	67	0	0.767196	-0.312169	0.767196	-0.121693	-0.333333
19 all	11	160	78	7	7	160 B	68	257	325	1	0.496757	-0.274968	0.498054	0.072633	-0.29572
20	3	26	1	3	2	26 A	34	32	66	0	0.75	0.75	-0.291667	-0.208333	-0.25
20	4	52	1	2	2	52 A	19	56	75	1	0.904762	0.89881	-0.315476	-0.291667	-0.291667
20	5	49	1	5	1	49 A	1	56	57	0	0.833333	0.833333	-0.309524	-0.214286	-0.309524
20	6	46	3	0	0	46 A	11	49	60	0	0.918367	0.918367	-0.251701	-0.333333	-0.333333
20	7	66	0	1	0	67 A	0	67	67	0	1	0.9801	-0.333333	-0.313433	-0.333333
20 all	239	6	11	3	3	239 A	65	260	325	1	0.892308	0.89359	-0.301282	-0.275641	-0.316667
21	3	4	3	28	2	28 C	29	37	66	0	0.675676	-0.189189	-0.225225	0.675676	-0.261261
21	4	4	1	51	1	51 C	18	57	75	0	0.859649	-0.239766	-0.309942	0.859649	-0.309942
21	5	7	0	48	1	48 C	1	56	57	0	0.809524	-0.166667	-0.333333	0.809524	-0.309524
21	6	2	0	47	1	47 C	10	50	60	0	0.92	-0.28	-0.333333	0.92	-0.306667
21	7	0	0	66	1	66 C	0	67	67	0	0.9801	-0.333333	-0.333333	0.9801	-0.313433
21 all	17	4	240	6	6	240 C	58	267	325	0	0.865169	-0.248439	-0.313358	0.865169	-0.303371
22	3	2	21	3	2	21 B	38	28	66	0	0.666667	-0.238095	0.666667	-0.190476	-0.238095
22	4	2	40	2	0	40 B	31	44	75	0	0.878788	-0.272727	0.878788	-0.272727	-0.333333
22	5	3	36	2	3	36 B	13	44	57	0	0.757576	-0.242424	0.757576	-0.272727	-0.242424
22	6	1	38	4	0	38 B	17	43	60	0	0.844961	-0.302326	0.844961	-0.209302	-0.333333
22	7	2	55	1	1	55 B	8	59	67	0	0.909605	-0.288136	0.909605	-0.310734	-0.310734
22 all	10	190	12	6	6	190 B	107	218	325	0	0.828746	-0.272171	0.828746	-0.259939	-0.296636
23	3	1	1	1	24	24 D	39	27	66	0	0.851852	-0.283951	-0.283951	-0.283951	0.851852
23	4	2	0	1	48	48 D	24	51	75	0	0.921569	-0.281046	-0.333333	-0.30719	0.921569
23	5	1	4	0	48	48 D	4	53	57	0	0.874214	-0.308176	-0.232704	-0.333333	0.874214
23	6	0	1	0	50	50 D	9	51	60	0	0.973856	-0.333333	-0.30719	-0.333333	0.973856
23	7	1	0	0	65	65 D	1	66	67	0	0.979798	-0.313131	-0.333333	-0.333333	0.979798
23 all	5	6	2	235	235 D	77	248	325	0	0.930108	-0.306452	-0.301075	-0.322581	0.930108	
24	3	2	3	4	19	19 D	38	28	66	0	0.571429	-0.238095	-0.190476	-0.142857	0.571429
24	4	3	1	5	40	40 D	25	50	75	0	0.733333	-0.246667	-0.3	-0.193333	0.74
24	5	8	0	1	38	38 D	10	47	57	0	0.744681	-0.106383	-0.333333	-0.304965	0.744681
24	6	3	0	4	39	39 D	14	46	60	0	0.797101	-0.246377	-0.333333	-0.217391	0.797101
24	7	1	0	0	65	65 D	1	66	67	0	0.979798	-0.313131	-0.333333	-0.333333	0.979798

24 all		17	4	15	201	201 D	88	237	325	0	0.797468	-0.237693	-0.31083	-0.248945	0.797468
25	3	3	23	0	1	23 B	39	27	66	0	0.802469	-0.185185	0.802469	-0.333333	-0.283951
25	4	2	47	0	2	47 B	24	51	75	0	0.895425	-0.281046	0.895425	-0.333333	-0.281046
25	5	1	49	0	0	49 B	7	50	57	0	0.973333	-0.306667	0.973333	-0.333333	-0.333333
25	6	0	46	1	1	46 B	12	48	60	0	0.944444	-0.333333	0.944444	-0.305556	-0.305556
25	7	0	65	0	0	65 B	2	65	67	0	1	-0.333333	1	-0.333333	-0.333333
25 all		6	230	1	4	230 B	84	241	325	0	0.939142	-0.300138	0.939142	-0.327801	-0.311203
26	3	5	1	1	19	19 D	40	26	66	0	0.641026	-0.076923	-0.282051	-0.282051	0.641026
26	4	3	2	1	46	46 D	23	52	75	0	0.846154	-0.25641	-0.282051	-0.307692	0.846154
26	5	3	0	0	46	46 D	8	49	57	0	0.918367	-0.251701	-0.333333	-0.333333	0.918367
26	6	1	0	1	46	46 D	12	48	60	0	0.944444	-0.305556	-0.333333	-0.305556	0.944444
26	7	3	0	1	63	63 D	0	67	67	0	0.920398	-0.273632	-0.333333	-0.313433	0.920398
26 all		15	3	4	220	220 D	83	242	325	0	0.878788	-0.250689	-0.316804	-0.311295	0.878788
27	3	17	1	3	0	17 A	45	21	66	0	0.746032	0.746032	-0.269841	-0.142857	-0.333333
27	4	50	0	1	0	50 A	24	51	75	0	0.973856	0.973856	-0.333333	-0.30719	-0.333333
27	5	46	2	0	0	46 A	9	48	57	0	0.944444	0.944444	-0.277778	-0.333333	-0.333333
27	6	44	2	1	0	44 A	13	47	60	0	0.914894	0.914894	-0.276596	-0.304965	-0.333333
27	7	66	1	0	0	66 A	0	67	67	0	0.9801	0.9801	-0.313433	-0.333333	-0.333333
27 all		223	6	5	0	223 A	91	234	325	0	0.937322	0.937322	-0.299145	-0.304843	-0.333333
28	3	1	2	17	0	17 C	46	20	66	0	0.8	-0.266667	-0.2	0.8	-0.333333
28	4	0	1	44	1	44 C	29	46	75	0	0.942029	-0.333333	-0.304348	0.942029	-0.304348
28	5	1	1	47	0	47 C	8	49	57	0	0.945578	-0.306122	-0.306122	0.945578	-0.333333
28	6	0	1	46	0	46 C	13	47	60	0	0.971631	-0.333333	-0.304965	0.971631	-0.333333
28	7	1	1	65	0	65 C	0	67	67	0	0.960199	-0.313433	-0.313433	0.960199	-0.333333
28 all		3	6	219	1	219 C	96	229	325	0	0.941776	-0.315866	-0.298399	0.941776	-0.327511
29	3	0	2	4	9	9 D	51	15	66	0	0.466667	-0.333333	-0.155556	0.022222	0.466667
29	4	1	3	6	35	35 D	30	45	75	0	0.703704	-0.303704	-0.244444	-0.155556	0.703704
29	5	1	3	4	37	37 D	12	45	57	0	0.762963	-0.303704	-0.244444	-0.214815	0.762963
29	6	0	1	5	35	35 D	19	41	60	0	0.804878	-0.333333	-0.300813	-0.170732	0.804878
29	7	2	2	4	54	54 D	5	62	67	0	0.827957	-0.290323	-0.290323	-0.247312	0.827957
29 all		4	11	23	170	170 D	117	208	325	0	0.75641	-0.307692	-0.262821	-0.185897	0.75641
30	3	3	2	4	0	4 C	57	9	66	0	0.259259	0.111111	-0.037037	0.259259	-0.333333
30	4	8	0	35	3	35 C	29	46	75	0	0.681159	-0.101449	-0.333333	0.681159	-0.246377
30	5	2	3	38	1	38 C	13	44	57	0	0.818182	-0.272727	-0.242424	0.818182	-0.30303
30	6	3	0	39	0	39 C	18	42	60	0	0.904762	-0.238095	-0.333333	0.904762	-0.333333
30	7	3	0	62	2	62 C	2	65	67	0	0.938462	-0.282051	-0.34359	0.928205	-0.302564

30 all	19	5	178	4	178 C	119	206	325	0	0.81877	-0.210356	-0.300971	0.81877	-0.307443	
31	3	11	0	1	0	11 A	54	12	66	0	0.888889	0.888889	-0.333333	-0.222222	-0.333333
31	4	47	1	0	0	47 A	27	48	75	0	0.972222	0.972222	-0.305556	-0.333333	-0.333333
31	5	47	0	0	0	47 A	10	47	57	0	1	1	-0.333333	-0.333333	-0.333333
31	6	44	1	0	0	44 A	15	45	60	0	0.97037	0.97037	-0.303704	-0.333333	-0.333333
31	7	65	0	0	0	65 A	2	65	67	0	1	1	-0.333333	-0.333333	-0.333333
31 all	214	2	1	0	214 A	108	217	325	0	0.981567	0.981567	-0.321045	-0.327189	-0.333333	

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Table F.1. Index of discrimination of items on MLAT-ES *Parte 1 Palabras ocultas*

Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i	Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i
1	109	71	0.35	16	108	70	0.35
2	104	58	0.43	17	76	33	0.40
3	110	94	0.15	18	110	63	0.44
4	108	64	0.41	19	91	21	0.65
5	110	84	0.24	20	110	34	0.70
6	97	42	0.51	21	108	32	0.70
7	91	34	0.53	22	101	20	0.75
8	107	55	0.48	23	108	33	0.69
9	110	65	0.42	24	108	18	0.83
10	106	60	0.43	25	109	24	0.79
11	86	41	0.42	26	109	21	0.85
12	89	16	0.68	27	110	20	0.83
13	105	78	0.25	28	107	26	0.75
14	103	40	0.58	29	101	11	0.83
15	103	67	0.33	30	100	13	0.81
				31	108	26	0.76

Table F.2. Cronbach's reliability analysis of MLAT-ES *Parte 1 Palabras ocultas*

Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted
1	.266	.927	11	.350	.926	21	.726	.921
2	.351	.926	12	.468	.924	22	.620	.922
3	.192	.927	13	.354	.925	23	.725	.921
4	.440	.925	14	.512	.924	24	.707	.921
5	.300	.926	15	.344	.926	25	.757	.920
6	.359	.926	16	.462	.924	26	.761	.920
7	.396	.925	17	.307	.927	27	.770	.920
8	.380	.925	18	.570	.923	28	.686	.921
9	.412	.925	19	.490	.924	29	.656	.922
10	.423	.925	20	.702	.921	30	.666	.921
						31	.690	.921

Table F.3. Sentences on MLAT-ES Parte 2 Palabras que se corresponden aiming at subject function

Item	Function aimed at: Subject	
5	Stem	Un CHICO muy pequeñito tocó el timbre de la casa.
	Target	El <u>gato</u> se escondió debajo de la cama.
8	Stem	El año pasado mi PAPÁ me llevó al circo.
	Target	Los <u>hombres</u> vivían en cavernas hace miles de años.
10	Stem	Los TIGRES solo comen carne.
	Target	Una <u>lluvia</u> suave es buena para las plantas
15	Stem	Dime una cosa, ¿todavía está enferma tu HERMANA?
	Target	Las <u>hormigas</u> trabajan duro acarreando comida.
22	Stem	¿Qué te pareció el nuevo COMPAÑERO?
	Target	Mi <u>tía</u> salió y no apagó el televisor.
23	Stem	SUSANA le quitó el sombrero a Juan.
	Target	Cuando se acerca el invierno, los <u>pájaros</u> empiezan a volar hacia el sur.
24	Stem	ENRIQUE puso una campanilla en la puerta de entrada de su casa.
	Target	¿A qué horas crees <u>tú</u> que llegarás a cenar?

Table F.4. Sentences on MLAT-ES Parte 2 Palabras que se corresponden aiming at verb

Item	Function aimed at: Verb	
3	Stem	Olga CAMINÓ trescientos metros ayer.
	Target	A mi primo Francisco le <u>regalaron</u> un automóvil nuevo.
7	Stem	Pedro PONE el despertador todas las noches.
	Target	En el verano <u>soplan</u> vientos calientes.
9	Stem	A Juan le COMPRARÁN un regalo el lunes.
	Target	El fin de semana pasado, María y José <u>jugaron</u> fútbol.
12	Stem	Carlos JUGABA con trencitos en el patio de su abuela.
	Target	Pedro y su hermano <u>trabajan</u> en una tienda de ropa.
17	Stem	Cuando llueve, yo siempre LLEVO botas de goma.
	Target	La mamá le <u>cantó</u> una canción de cuna a su bebé.
20	Stem	Todas las mañanas mi abuelo se BEBE una taza de café con leche.
	Target	Tomás le <u>tiró</u> la pelota a Manuel.
28	Stem	María José RECIBIÓ varias tarjetas para Navidad.
	Target	Mi padre y yo <u>salimos</u> de camping todos los veranos.
31	Stem	Marcos BAILA merengue con Marcela.
	Target	Los niños descuidados <u>dejan</u> los libros en el suelo.

Table F.5. Sentences on MLAT-ES Parte 2 Palabras que se corresponden aiming at object function

Item	Function aimed at: Object	
1	Stem	Mi mamá encendió la LUZ.
	Target	María toca la <u>guitarra</u> por la mañana.
6	Stem	Me corté el DEDO con un cuchillo.
	Target	Mi hermano dejó sus <u>llaves</u> en la casa.
11	Stem	Por tirar BASURA, castigaron a Juan.
	Target	Susana recogió su <u>muñeca</u> del suelo.
14	Stem	Dale AGUA a tu perro cuando tenga sed.
	Target	Las lanchas usan una <u>gasolina</u> especial para funcionar.
18	Stem	Carlos aprobó el EXAMEN, pero Juan no.
	Target	Por favor, no dejes la <u>cámara</u> en la silla.
19	Stem	Pedro es un payaso y por eso se pintó la CARA.
	Target	Los elefantes mueven las <u>orejas</u> cuando hay viento.
25	Stem	¿Quién te regaló los GUANTES nuevos?
	Target	Encontramos la <u>caja</u> debajo de una mesa que está en el ático.
26	Stem	Traté de atrapar el SAPO, pero no pude.
	Target	No mandes el <u>fax</u> hasta que te digan.

Table F.6. Sentences on MLAT-ES Parte 2 Palabras que se corresponden aiming at adjective function

Item	Function aimed at: Adjective	
2	Stem	El perro PEQUEÑO rompió el florero de cristal.
	Target	La casa <u>roja</u> tiene las ventanas abiertas.
4	Stem	La GRAN mansión del presidente es blanca.
	Target	En la clase de matemáticas hay <u>pocos</u> alumnos.
13	Stem	Las jirafas tienen un cuello LARGUÍSIMO.
	Target	Jorge come en una mesa <u>amarilla</u> del parque.
16	Stem	A mí me gusta la brisa FRESCA del campo.
	Target	José está leyendo una novela muy <u>entretenida</u> .
21	Stem	Mi maestra siempre tiene una sonrisa AMABLE para todo el mundo.
	Target	¿Te gusta dormir con una almohada <u>blanda</u> ?
27	Stem	El vestido BONITO de Perla está estropeado.
	Target	El amigo de Juan lleva puesta una camisa <u>escocesa</u> .
29	Stem	No quisimos bañarnos en el mar porque había unas olas ENORMES.
	Target	El pájaro entró por una ventana <u>abierta</u> .
30	Stem	Las luciérnagas son FOSFORESCENTES, o sea, brillan en la oscuridad.
	Target	Ayer, Rodrigo y Ronald viajaron en un tren muy <u>bullicioso</u> .

Table F.7. IF distribution across grades on the MLAT-ES *Parte 2 Palabras que se corresponden* according to the target function in the sentence

Function	Gr.	N	Very easy > 0.74	Easy 0.55 - 0.74	Mid-difficult 0.45 - 0.54	Difficult 0.25 – 0.44	Very difficult <0.25
Subject	3	66			3.2% 8	9.7% 5,15, 23	9.7% 10, 22, 24
	4	75		9.7% 5, 8,15	6.5% 10, 23		6.5% 22, 24
	5	57	3.2% 5	6.5% 8, 23	3.2% 15	9.7% 10, 22, 24	
	6	60	6.5% 5, 8	12.9% 10, 15, 23, 24	3.2% 22		
	7	67	9.7% 5, 8, 15	9.7% 10, 23, 24		3.2% 22	
	3-7	325		12.9% 5, 8, 15, 23	3.2% 10	6.5% 22, 24	
Verb	3	66		3.2% 12	3.2% 28	12.9% 3, 7, 17, 20	6.5% 9, 31
	4	75	3.2% 12	9.7% 3, 20, 28	12.9% 7, 9, 17, 31		
	5	57	3.2% 12	19.3% 3, 7, 9, 17, 20, 28		3.2% 31	
	6	60	19.3% 3, 7, 9, 12, 20, 28	6.5% 17,31			
	7	67	19.3% 7, 9, 12, 17, 20, 28	6.5% 3, 31			
	3-7	325	3.2% 12	19.3% 3, 7, 9, 17, 20, 28	3.2% 31		
Object	3	66		9.7% 1, 18, 26	6.5% 14, 19	6.5% 6, 11	3.2% 25
	4	75	3.2% 26	19.3% 1, 6, 14, 18, 19, 25	3.2% 11		
	5	57	3.2% 18	16.1% 1, 14, 19, 25, 26	3.2% 6		3.2% 11
	6	60	19.3% 1, 6, 14, 18, 19, 26	6.5% 11, 25			
	7	67	19.3% 1, 6, 11, 14, 18, 26	6.5% 19, 25			
	3-7	325	9.7% 1, 18, 26	12.9% 6, 14, 19, 25	3.2% 11		
Adjective	3	66			6.5% 13, 30	9.7% 2, 27, 29	9.7% 4, 16, 21
	4	75		12.9% 2, 13, 29, 30		9.7% 4, 16, 27	3.2% 21
	5	57	3.2% 2	6.5% 13, 30	3.2% 29	12.9% 4, 16, 21, 27	
	6	60	9.7% 2, 13, 29	12.9% 16, 21, 27, 30	3.2% 4		
	7	67	9.7% 2, 13, 29	12.9% 16, 21, 27, 30	3.2% 4		
	3-7	325		12.9% 2, 13, 29, 30	9.7% 16, 21, 27	3.2% 4	

In Table F.7 the items of this part appear classified according to the function they aim at. The percentages in bold letters refer to the total of items on the test regardless of their function. It can be seen that the most difficult function to recognize by all grades was the adjective, followed by the subject and verb function. Regarding the object function, item 11 appears to be difficult for more than one grade.

Table F.8. Order of appearance of target items on the MLAT-ES *Parte 2 Palabras que se corresponden*

Functions	Canonical word order	Order of sentence elements changed in the stem	Order of sentence elements changed in the target sentence
Subject	5, 8, 10	15, 22	23, 24
Verb	12, 20, 28, 31	9, 17	3, 7
Object	1, 6, 14, 18, 19, 25, 26	11	
Adjective	2, 13, 16, 21, 27, 29, 30	4	

Table F.9. Index of discrimination of items on MLAT-ES *Parte 2 Palabras que se corresponden*

Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i	Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i
1	103	68	0.32	16	91	22	0.64
2	105	45	0.55	17	105	28	0.71
3	99	29	0.65	18	103	53	0.46
4	75	25	0.46	19	94	41	0.49
5	108	43	0.60	20	99	39	0.55
6	98	37	0.56	21	96	21	0.69
7	102	33	0.64	22	61	18	0.40
8	106	47	0.54	23	95	23	0.66
9	105	28	0.71	24	86	8	0.72
10	83	28	0.51	25	92	25	0.62
11	90	30	0.55	26	106	43	0.58
12	108	57	0.47	27	102	14	0.81
13	106	41	0.60	28	104	35	0.64
14	93	48	0.42	29	106	17	0.82
15	102	24	0.72	30	105	26	0.73
				31	95	14	0.75

Table F.10. Cronbach's reliability analysis of MLAT-ES *Parte 2 Palabras que se corresponden*

	Corrected Items item-total correlation	Cronbach's Alpha if deleted		Corrected Items item-total correlation	Cronbach's Alpha if deleted		Corrected Items item-total correlation	Cronbach's Alpha if deleted
1	.319	.925	11	.424	.924	21	.512	.922
2	.532	.922	12	.556	.922	22	.326	.925
3	.571	.922	13	.533	.922	23	.527	.922
4	.362	.924	14	.398	.924	24	.583	.921
5	.651	.921	15	.602	.921	25	.516	.922
6	.466	.923	16	.497	.923	26	.570	.922
7	.564	.922	17	.483	.923	27	.600	.921
8	.520	.922	18	.446	.923	28	.537	.922
9	.638	.921	19	.444	.923	29	.663	.920
10	.426	.924	20	.488	.923	30	.555	.922
						31	.587	.921

Table F.11. Index of discrimination of items on MLAT-ES *Parte 3 Palabras que riman*

Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i	Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i
1	96	63	0.31	24	103	47	0.52
2	108	85	0.21	25	103	67	0.33
3	106	84	0.20	26	107	72	0.32
4	100	67	0.31	27	108	73	0.32
5	108	85	0.21	28	101	44	0.53
6	94	53	0.38	29	104	48	0.52
7	101	52	0.45	30	102	37	0.60
8	106	72	0.31	31	105	42	0.58
9	104	62	0.39	32	105	38	0.62
10	105	75	0.28	33	106	38	0.63
11	97	42	0.51	34	108	23	0.79
12	108	51	0.53	35	107	22	0.79
13	100	52	0.44	36	107	37	0.65
14	106	49	0.53	37	103	23	0.74
15	104	76	0.26	38	90	25	0.60
16	103	50	0.49	39	97	18	0.73
17	106	69	0.34	40	103	22	0.75
18	107	70	0.34	41	107	23	0.78
19	107	70	0.34	42	104	20	0.78
20	107	61	0.43	43	102	16	0.80
21	103	65	0.35	44	102	14	0.81
22	103	47	0.52	45	104	21	0.77
23	106	57	0.45	46	94	8	0.80

Table F.12. Cronbach's reliability analysis of MLAT-ES *Parte 3 Palabras que riman*

Items	Corrected	Cronbach's	Items	Corrected	Cronbach's	Items	Corrected	Cronbach's
	item-total	Alpha		item-total	Alpha		item-total	Alpha
	correlation	if deleted		correlation	if deleted		correlation	if deleted
1	.285	.947	17	.447	.946	33	.656	.944
2	.402	.946	18	.546	.945	34	.652	.944
3	.314	.946	19	.544	.945	35	.714	.944
4	.316	.946	20	.476	.945	36	.653	.944
5	.339	.946	21	.414	.946	37	.666	.944
6	.354	.946	22	.452	.946	38	.465	.946
7	.354	.946	23	.526	.945	39	.594	.945
8	.378	.946	24	.480	.945	40	.639	.944
9	.360	.946	25	.467	.945	41	.691	.944
10	.330	.946	26	.487	.945	42	.662	.944
11	.403	.946	27	.526	.945	43	.675	.944
12	.482	.945	28	.583	.945	44	.668	.944
13	.427	.946	29	.593	.945	45	.615	.944
14	.489	.945	30	.590	.945	46	.585	.945
15	.364	.946	31	.626	.944			
16	.476	.945	32	.657	.944			

Table F.13. Percentages of wrong number combinations sharing the same unit on MLAT-ES *Parte 4 Aprendamos numerosos*

Number written	Target number	Test takers percentage	
		1 st time	2 nd time
11	21	3.1	2.2
21	11	4.9	6.8
12	22	4.9	4.9
22	12	6.8	4.3
13	23	5.5	2.8
23	13	6.8	8

Table F.14. Percentages of wrong answers on MLAT-ES *Parte 4 Aprendamos números* regarding units and corresponding tens

Number written	Target number	Test takers percentage	
		1 st time	2 nd time
1	10	2.2	-
10	1	4	-
2	20	4.9	5.5
20	2	25.2	26.8
3	30	8.6	-
30	3	9.8	-

Table F.15. Answers to items w and x on MLAT-ES *Parte 4 Aprendamos números*

Grade	Item w and x =20	Item w and x =2	Item w =2 and item x =20	Item w =20 and item x=2
3	13	1	3	27
4	14	-	4	35
5	10	-	2	34
6	9	2	3	41
7	4	-	1	50
Total	50	3	13	187

F.16. Index of discrimination of items on MLAT-ES *Parte 4 Aprendamos números*

Item	Correct answers	Correct answers	D_i	Item	Correct answers	Correct answers	D_i
	Upper 33%	Lower 33%			Upper 33%	Lower 33%	
a. 23	106	69	0.34	n. 10	103	47	0.52
b. 2	107	46	0.56	ñ. 13	103	67	0.33
c. 11	107	52	0.51	o. 33	107	72	0.32
d. 33	108	75	0.30	p. 21	108	73	0.32
e. 21	108	63	0.42	q. 12	101	44	0.53
f. 3	107	62	0.42	r. 22	104	48	0.52
g. 12	108	45	0.58	s. 13	102	37	0.60
h. 30	108	81	0.25	t. 32	105	42	0.58
i. 22	107	55	0.48	u. 23	105	38	0.62
j. 1	108	59	0.45	v. 11	106	38	0.63
k. 31	108	68	0.37	w. 20	108	23	0.79
l. 20	108	62	0.42	x. 2	107	22	0.79
m. 32	108	77	0.29				

Table F.17. Cronbach's reliability analysis of MLAT-ES *Parte 4 Aprendamos números*

Corrected Cronbach's			Corrected Cronbach's			Corrected Cronbach's		
Items	item-total correlation	Alpha if deleted	Items	item-total correlation	Alpha if deleted	Items	item-total correlation	Alpha if deleted
a. 23	.376	.925	j. 1	.595	.921	r. 22	.638	.921
b. 2	.435	.925	k. 31	.594	.922	s. 13	.642	.921
c. 11	.567	.922	l. 20	.480	.923	t. 32	.649	.921
d. 33	.594	.922	m. 32	.543	.922	u. 23	.598	.922
e. 21	.627	.921	n. 10	.556	.922	v. 11	.641	.921
f. 3	.582	.922	ñ. 13	.623	.921	w. 20	.420	.924
g. 12	.624	.921	o. 33	.577	.922	x. 2	.452	.925
h. 30	.320	.925	p. 21	.609	.921			
i. 22	.540	.922	q. 12	.685	.920			

Table F.18. Shapiro-Wilk normality test of the MLAT-ES

Test parts		MLAT-ES 1		MLAT-ES 2		MLAT-ES 3		MLAT-ES 4		MLAT-ES Total raw score	
Grade	N	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.
3	66	.944	.005	.956	.020	.942	.004	.888	.000	.989	.825
4	75	.946	.003	.953	.007	.934	.001	.853	.000	.974	.119
5	57	.916	.001	.937	.005	.860	.000	.759	.000	.931	.003
6	60	.869	.000	.803	.000	.808	.000	.679	.000	.877	.000
7	67	.844	.000	.787	.000	.787	.000	.582	.000	.856	.000
All	325	.906	.000	.920	.000	.883	.000	.775	.000	.937	.000

Item	Grade	A	B	C	D	E	F	G	H	I	right an	right missi	attemp N	dout IF	IF - A	IF - B	IF - C	IF - D	IF - E	IF - F	IF - G	IF - H	IF - I		
1	3	1	3	0	51	0	0	10			51 D	0	66	66	1	0.734848	-0.022727	0.007576	-0.037879	0.734848	-0.037879	-0.037879	0.113636		
1	4	2	9	0	56	1	0	7			56 D	0	75	75	0	0.704444	-0.015556	0.077778	-0.042222	0.704444	-0.028889	-0.042222	0.051111		
1	5	1	3	0	42	0	0	11			42 D	0	57	57	0	0.692982	-0.026316	0.008772	-0.04386	0.692982	-0.04386	-0.04386	0.149123		
1	6	0	1	0	56	0	0	3			56 D	0	60	60	0	0.922222	-0.011111	0.005556	-0.011111	0.922222	-0.011111	-0.011111	0.038889		
1	7	1	4	1	56	0	0	5			56 D	0	67	67	0	0.808458	-0.012438	0.032338	-0.012438	0.808458	-0.027363	-0.027363	0.047264		
1 all		5	20	1	261	1	0	36			261 D	0	325	325	1	0.770256	-0.017436	0.028718	-0.029744	0.770256	-0.029744	-0.032821	0.077949		
2	3	0	8	26	0	0	17	13			26 C	2	64	66	0	0.307292	-0.098958	0.026042	0.307292	-0.098958	-0.098958	0.166667	0.104167		
2	4	0	2	51	2	0	7	11			51 C	2	73	75	0	0.648402	-0.050228	-0.022831	0.648402	-0.022831	-0.050228	0.045662	0.100457		
2	5	0	1	45	1	0	6	3			45 C	1	56	57	0	0.770833	-0.032738	-0.014881	0.770833	-0.014881	-0.032738	0.074405	0.020833		
2	6	0	1	53	1	0	3	2			53 C	0	60	60	0	0.863889	-0.019444	-0.002778	0.863889	-0.002778	-0.019444	0.030556	0.013889		
2	7	0	2	61	1	0	2	1			61 C	0	67	67	0	0.895522	-0.014925	0.014925	0.895522	0	-0.014925	0.014925	0		
2 all		0	14	236	5	0	35	30			236 C	5	320	325	0	0.69375	-0.04375	0	0.69375	-0.028125	-0.04375	0.065625	0.05		
3	3	0	0	2	4	1	26	1	23	9	26 F	0	66	66	0	0.318182	-0.075758	-0.075758	-0.045455	-0.015152	-0.060606	0.318182	-0.060606	0.272727	0.060606
3	4	0	0	5	2	0	46	0	16	4	46 F	1	74	75	1	0.574324	-0.047297	-0.047297	0.02027	-0.02027	-0.047297	0.574324	-0.047297	0.168919	0.006757
3	5	0	0	4	4	1	38	0	9	1	38 F	0	57	57	0	0.625	-0.041667	-0.041667	0.028509	0.028509	-0.024123	0.625	-0.041667	0.116228	-0.024123
3	6	0	0	1	1	0	47	0	8	2	47 F	1	59	60	0	0.771186	-0.025424	-0.025424	-0.008475	-0.008475	-0.025424	0.771186	-0.025424	0.110169	0.008475
3	7	0	0	4	1	0	51	0	9	1	51 F	1	66	67	0	0.744318	-0.028409	-0.028409	0.032197	-0.013258	-0.028409	0.744318	-0.028409	0.107955	-0.013258
3 all		0	0	16	12	2	208	1	65	17	208 F	3	322	325	1	0.601708	-0.044255	-0.044255	0.005435	-0.006988	-0.038043	0.601708	-0.041149	0.157609	0.00854
4	3	0	0	15	0	12	0	21	17		21 G	1	65	66	0	0.226374	-0.096703	-0.096703	0.134066	-0.096703	0.087912	-0.096703	0.226374	0.164835	
4	4	0	3	19	0	11	0	32	8		32 G	2	73	75	0	0.358121	-0.080235	-0.039139	0.180039	-0.080235	0.07045	-0.080235	0.358121	0.029354	
4	5	0	0	22	1	3	1	27	3		27 G	0	57	57	0	0.398496	-0.075188	-0.075188	0.310777	-0.057644	-0.022556	-0.057644	0.398496	-0.022556	
4	6	0	1	12	0	8	1	33	4		33 G	1	59	60	0	0.496368	-0.062954	-0.046005	0.140436	-0.062954	0.072639	-0.046005	0.496368	0.004843	
4	7	0	2	11	0	13	0	38	1		38 G	2	65	67	0	0.525275	-0.059341	-0.028571	0.10989	-0.059341	0.140659	-0.059341	0.525275	-0.043956	
4 all		0	6	79	1	47	2	151	33		151 G	6	319	325	0	0.398119	-0.075235	-0.056426	0.172414	-0.0721	0.0721	-0.068966	0.398119	0.028213	
5	3	0	32	0	14	7	0	0	11		32 B	1	65	66	1	0.41978	-0.072527	0.41978	-0.072527	0.142857	0.035165	-0.072527	-0.072527	0.096703	
5	4	1	55	0	7	5	0	0	7		55 B	0	75	75	0	0.695238	-0.024762	0.695238	-0.038095	0.055238	0.028571	-0.038095	-0.038095	0.055238	
5	5	0	47	0	5	3	0	0	2		47 B	0	57	57	0	0.799499	-0.025063	0.799499	-0.025063	0.062657	0.027569	-0.025063	-0.025063	0.010025	
5	6	0	54	0	2	1	0	0	3		54 B	0	60	60	0	0.885714	-0.014286	0.885714	-0.014286	0.019048	0.002381	-0.014286	-0.014286	0.035714	
5	7	0	62	1	3	0	0	0	1		62 B	0	67	67	0	0.914712	-0.010661	0.914712	0.004264	0.034115	-0.010661	-0.010661	-0.010661	0.004264	
5 all		1	250	1	31	16	0	0	24		250 B	1	324	325	1	0.738977	-0.029541	0.738977	-0.029541	0.063051	0.016755	-0.032628	-0.032628	0.041446	
6	3	2	10	20	2	26	1	0	3	1	26 E	1	65	66	0	0.314286	-0.054945	0.068132	0.221978	-0.054945	0.314286	-0.07033	-0.085714	-0.03956	-0.059615
6	4	2	10	5	0	47	1	0	9	0	47 E	1	74	75	0	0.583012	-0.025097	0.083012	0.015444	-0.052124	0.583012	-0.03861	-0.052124	0.069498	-0.045608
6	5	0	8	11	3	34	0	0	1	0	34 E	0	57	57	0	0.538847	-0.057644	0.082707	0.135338	-0.005013	0.538847	-0.057644	-0.057644	-0.0401	-0.050439
6	6	0	4	1	2	47	0	0	6	0	47 E	0	60	60	0	0.752381	-0.030952	0.035714	-0.014286	0.002381	0.752381	-0.030952	-0.030952	0.069048	-0.027083
6	7	0	2	5	0	57	0	0	2	0	57 E	1	66	67	0	0.844156	-0.019481	0.010823	0.056277	-0.019481	0.844156	-0.019481	-0.019481	0.010823	-0.017045
6 all		4	34	42	7	211	2	0	21	1	211 E	3	322	325	0	0.606034	-0.036823	0.056344	0.081189	-0.027507	0.606034	-0.043035	-0.049246	0.015972	-0.039984
7	3	0	1	10	29	11	11				29 D	3	63	66	1	0.352381	-0.107937	-0.092063	0.050794	0.352381	0.066667	0.066667			
7	4	0	1	10	45	12	7				45 D	0	75	75	0	0.52	-0.08	-0.066667	0.053333	0.52	0.08	0.013333			
7	5	1	1	13	36	4	1				36 D	1	56	57	0	0.571429	-0.053571	-0.053571	0.160714	0.571429	0	-0.053571			
7	6	0	0	2	54	2	2				54 D	0	60	60	0	0.88	-0.02	-0.02	0.013333	0.88	0.013333	0.013333			
7	7	0	1	3	52	8	1				52 D	2	65	67	0	0.76	-0.04	-0.024615	0.006154	0.76	0.083077	-0.024615			
7 all		1	4	38	216	37	22				216 D	6	319	325	1	0.612539	-0.061442	-0.052038	0.054545	0.612539	0.051411	0.004389			
8	3	0	39	4	0	16	0	3	0	4	39 B	0	66	66	0	0.539773	-0.051136	0.539773	0.00947	-0.051136	0.191288	-0.051136	-0.005682	-0.051136	0.00947
8	4	0	55	6	0	10	1	0	0	3	55 B	0	75	75	0	0.7	-0.033333	0.7	0.046667	-0.033333	0.1	-0.02	-0.033333	-0.033333	0.006667
8	5	0	42	6	0	9	0	0	0	0	42 B	0	57	57	0	0.703947	-0.032895	0.703947	0.072368	-0.032895	0.125	-0.032895	-0.032895	-0.032895	-0.032895
8	6	0	49	2	0	9	0	0	0	0	49 B	0	60	60	0	0.79375	-0.022917	0.79375	0.010417	-0.022917	0.127083	-0.022917	-0.022917	-0.022917	-0.022917
8	7	0	57	3	0	5	0	0	0	0	57 B	2	65	67	1	0.861538	-0.015385	0.861538	0.030769	-0.015385	0.061538	-0.015385	-0.015385	-0.015385	-0.015385
8 all		0	242	21	0	49	1	3	0	7	242 B	2	323	325	0	0.717879	-0.031347	0.717879	0.033669	-0.031347	0.120356	-0.028251	-0.022059	-0.031347	-0.009675
9	3	0	2	8	1	4	1	7	20	17	20 H	5	61	66	1	0.243852	-0.084016	-0.05123	0.047131	-0.018443	-0.067623	-0.067623	0.030738	0.243852	0.194672
9	4	1	1	6	0	8	1	2	42	10	42 H	1	74	75	3	0.513514	-0.040541	-0.040541	0.027027	0.054054	-0.054054	-0.040541	-0.027027	0.513514	0.081081
9	5	0	0	9	0	3	0	2	37	3	37 H	2	55	57	1	0.631818	-0.040909	-0.040909	0.122727	0.013636	-0.040909	-0.040909	-0.004545	0.631818	0.013636
9	6	0	0	1	0	1	0	2	51	3	51 H	1	59	60	1	0.847458	-0.016949	-0.016949	0	0	-0.016949	-0.016949	0.016949	0.847458	0.033898
9	7	0	2	3	0	1	0	0	59	1	59 H	1	66	67	0	0.880682	-0.013258	0.017045	0.032197	0.001894	-0.013258	-0.013258	-0.013258	0.880682	0.001894
9 all		1	5	27	1	17	2	13	209	34	209 H	10	315	325	6	0.621429	-0.038889	-0.02619	0.043651	0.011905	-0.038889	-0.035714	-0.000794	0.621429	0.065873

10	3	0	19	5	1	7	0	0	31	19 B	3	63	66	0	0.201814	-0.099773	0.201814	-0.020408	-0.0839	0.011338	-0.099773	-0.099773	0.39229		
10	4	1	38	0	1	7	0	0	26	38 B	2	73	75	0	0.452055	-0.054795	0.452055	-0.068493	-0.054795	0.027397	-0.068493	-0.068493	0.287671		
10	5	0	29	8	0	5	1	0	14	29 B	0	57	57	0	0.438596	-0.070175	0.438596	0.070175	-0.070175	0.017544	-0.052632	-0.070175	0.175439		
10	6	0	40	1	0	1	1	0	16	40 B	1	59	60	0	0.631961	-0.046005	0.631961	-0.029056	-0.046005	-0.029056	-0.029056	-0.046005	0.225182		
10	7	0	51	1	0	0	0	0	14	51 B	1	66	67	0	0.74026	-0.032468	0.74026	-0.017316	-0.032468	-0.032468	-0.032468	-0.032468	0.179654		
10 all		1	177	15	2	20	2	0	101	177 B	7	318	325	0	0.493261	-0.060198	0.493261	-0.016173	-0.057053	-0.000449	-0.057053	-0.063342	0.254268		
11	3	6	19	0	28	2	8			28 D	3	63	66	0	0.333333	-0.015873	0.190476	-0.111111	0.333333	-0.079365	0.015873				
11	4	3	19	2	43	0	8			43 D	0	75	75	0	0.488	-0.045333	0.168	-0.058667	0.488	-0.085333	0.021333				
11	5	6	23	0	20	1	7			20 D	0	57	57	0	0.221053	-0.024561	0.273684	-0.129825	0.221053	-0.112281	-0.007018				
11	6	0	14	0	42	0	4			42 D	0	60	60	0	0.64	-0.06	0.173333	-0.06	0.64	-0.06	0.006667				
11	7	1	10	0	53	0	3			53 D	0	67	67	0	0.749254	-0.026866	0.107463	-0.041791	0.749254	-0.041791	0.002985				
11 all		16	85	2	186	3	30			186 D	3	322	325	0	0.493168	-0.034783	0.179503	-0.078261	0.493168	-0.075155	0.008696				
12	3	6	1	4	41	0	0	6	1	4	41 D	3	63	66	0	0.607143	0.051587	-0.027778	0.019841	0.607143	-0.043651	-0.043651	0.051587	-0.027778	0.019841
12	4	2	0	2	61	1	1	1	0	3	61 D	0	75	75	0	0.79	0.003333	-0.023333	0.003333	0.79	-0.01	-0.01	-0.01	-0.023333	0.016667
12	5	3	0	3	46	0	0	4	0	1	46 D	0	57	57	0	0.782895	0.028509	-0.024123	0.028509	0.782895	-0.024123	-0.024123	0.046053	-0.024123	-0.006579
12	6	0	0	0	56	0	0	1	0	2	56 D	1	59	60	0	0.942797	-0.006356	-0.006356	-0.006356	0.942797	-0.006356	-0.006356	0.010593	-0.006356	0.027542
12	7	0	0	0	63	1	0	3	0	0	63 D	0	67	67	0	0.932836	-0.007463	-0.007463	-0.007463	0.932836	0.007463	-0.007463	0.037313	-0.007463	-0.007463
12 all		11	1	9	267	2	1	19	1	10	267 D	4	321	325	0	0.810748	0.01324	-0.017913	0.007009	0.810748	-0.014798	-0.017913	0.038162	-0.017913	0.010125
13	3	6	5	0	10	34	1	8		34 F	2	64	66	0	0.464286	0.026786	0.011161	-0.066964	-0.066964	0.089286	0.464286	-0.051339	0.058036		
13	4	1	5	0	1	9	51	0	8	51 F	0	75	75	0	0.634286	-0.032381	0.020952	-0.045714	-0.032381	0.074286	0.634286	-0.045714	0.060952		
13	5	2	4	0	1	5	36	0	9	36 F	0	57	57	0	0.578947	-0.017544	0.017544	-0.052632	-0.035088	0.035088	0.578947	-0.052632	0.105263		
13	6	0	1	0	0	5	49	0	5	49 F	0	60	60	0	0.790476	-0.02619	-0.009524	-0.02619	-0.02619	0.057143	0.790476	-0.02619	0.057143		
13	7	1	3	0	1	4	57	0	0	57 F	1	66	67	0	0.844156	-0.004329	0.025974	-0.019481	-0.004329	0.041126	0.844156	-0.019481	-0.019481		
13 all		10	18	0	3	33	227	1	30	227 F	3	322	325	0	0.662822	-0.011091	0.013753	-0.042147	-0.032831	0.060337	0.662822	-0.039042	0.05102		
14	3	0	21	0	0	35	2	0	4	35 E	4	62	66	0	0.502304	-0.062212	0.276498	-0.062212	-0.062212	0.502304	-0.029954	-0.062212	0.002304		
14	4	0	15	2	1	53	1	0	2	53 E	1	74	75	0	0.675676	-0.040541	0.162162	-0.013514	-0.027027	0.675676	-0.027027	-0.040541	-0.013514		
14	5	0	16	1	1	38	0	0	1	38 E	0	57	57	0	0.619048	-0.047619	0.233083	-0.030075	-0.030075	0.619048	-0.047619	-0.047619	-0.030075		
14	6	1	6	0	0	50	1	0	1	50 E	1	59	60	0	0.825666	-0.004843	0.079903	-0.021792	-0.021792	0.825666	-0.004843	-0.021792	-0.004843		
14	7	0	6	1	0	60	0	0	0	60 E	0	67	67	0	0.880597	-0.014925	0.074627	0	-0.014925	0.880597	-0.014925	-0.014925	-0.014925		
14 all		1	64	4	2	236	4	0	8	236 E	6	319	325	0	0.702642	-0.034035	0.163457	-0.024631	-0.0309	0.702642	-0.024631	-0.03717	-0.012091		
15	3	0	28	8	10	9	7			28 B	4	62	66	0	0.341935	-0.109677	0.341935	0.019355	0.051613	0.035484	0.003226				
15	4	0	47	8	2	6	12			47 B	0	75	75	0	0.552	-0.074667	0.552	0.032	-0.048	0.005333	0.085333				
15	5	0	34	6	2	3	11			34 B	1	56	57	0	0.528571	-0.078571	0.528571	0.028571	-0.042857	-0.025	0.117857				
15	6	0	46	5	1	1	7			46 B	0	60	60	0	0.72	-0.046667	0.72	0.036667	-0.03	-0.03	0.07				
15	7	0	55	3	2	1	5			55 B	1	66	67	0	0.8	-0.033333	0.8	0.012121	-0.00303	-0.018182	0.042424				
15 all		0	210	30	17	20	42			210 B	6	319	325	0	0.589969	-0.068339	0.589969	0.025705	-0.015047	-0.005643	0.063323				
16	3	4	1	15	0	19	0	21		21 G	6	60	66	0	0.241667	-0.041667	-0.091667	0.141667	-0.108333	0.208333	-0.108333	0.241667			
16	4	1	1	14	2	21	0	36		36 G	0	75	75	0	0.393333	-0.073333	-0.073333	0.1	-0.06	0.193333	-0.086667	0.393333			
16	5	2	1	11	0	17	2	24		24 G	0	57	57	0	0.324561	-0.061404	-0.078947	0.096491	-0.096491	0.201754	-0.061404	0.324561			
16	6	0	0	3	0	15	1	41		41 G	0	60	60	0	0.630556	-0.052778	-0.052778	-0.002778	-0.052778	0.197222	-0.036111	0.630556			
16	7	0	0	5	0	15	0	47		47 G	0	67	67	0	0.651741	-0.049751	-0.049751	0.024876	-0.049751	0.174129	-0.049751	0.651741			
16 all		7	3	48	2	87	3	169		169 G	6	319	325	0	0.451411	-0.056426	-0.068966	0.0721	-0.0721	0.194357	-0.068966	0.451411			
17	3	0	3	1	27	1	16	9	5	0	27 D	4	62	66	0	0.364919	-0.070565	-0.022177	-0.054435	0.364919	-0.054435	0.1875	0.074597	0.010081	-0.070565
17	4	0	3	2	37	6	20	1	4	0	37 D	2	73	75	0	0.445205	-0.061644	-0.020548	-0.034247	0.445205	0.020548	0.212329	-0.047945	-0.006849	-0.061644
17	5	0	4	0	35	2	7	6	0	1	35 D	0	57	57	0	0.565789	-0.048246	0.02193	-0.048246	0.565789	-0.013158	0.074561	0.057018	-0.048246	-0.030702
17	6	0	1	0	41	0	10	6	0	1	41 D	1	59	60	0	0.65678	-0.038136	-0.021186	-0.038136	0.65678	-0.038136	0.131356	0.063559	-0.038136	-0.021186
17	7	0	2	0	53	0	10	0	0	0	53 D	1	66	67	1	0.778409	-0.024621	0.005682	-0.024621	0.778409	-0.024621	0.126894	-0.024621	-0.024621	-0.024621
17 all		0	13	3	193	9	63	27	1	13	193 D	8	317	325	1	0.559937	-0.048896	-0.007886	-0.039432	0.559937	-0.039432	0.149842	0.036278	-0.045741	-0.007886
18	3	0	4	0	11	1	38	0	0	9	38 F	3	63	66	0	0.553571	-0.049603	0.013889	-0.049603	0.125	-0.033373	0.553571	-0.049603	-0.049603	0.093254
18	4	0	4	1	12	0	50	1	0	5	50 F	2	73	75	0	0.645548	-0.039384	0.015411	-0.025685	0.125	-0.039384	0.645548	-0.025685	-0.039384	0.02911
18	5	0	4	1	4	0	47	0	0	0	47 F	1	56	57	0	0.819196	-0.020089	0.051339	-0.002232	0.051339	-0.020089	0.819196	-0.020089	-0.020089	-0.020089
18	6	0	0	0	2	0	50	0	0	7	50 F	1	59	60	0	0.82839	-0.019068	-0.019068	-0.019068	0.014831	-0.019068	0.82839	-0.019068	-0.019068	0.099576
18	7	0	1	1	2	0	62	0	0	1	62 F	0	67	67	0	0.916045	-0.009328	0.005597	0.005597	0.020522	-0.009328	0.916045	-0.009328	-0.009328	0.005597
18 all		0	13	3	31	1	247	1	0	22	247 F	7	318	325	0	0.748821	-0.027909	0.012972	-0.018475	0.069575	-0.024764	0.748821	-0.024764	-0.027909	0.041274
19	3	0	7	13	0	35	1	0	5	35 E	5	61	66	0	0.512881	-0.06089	0.053864	0.152225	-0.06089	0.512881	-0.044496	-0.06089	0.021077		

19	4	0	5	4	3	53	2	0	6	53 E	2	73	75	0	0.686888	-0.039139	0.029354	0.015656	0.001957	0.686888	-0.011742	-0.039139	0.043053		
19	5	0	6	3	0	38	1	0	9	38 E	0	57	57	0	0.619048	-0.047619	0.057644	0.005013	-0.047619	0.619048	-0.030075	-0.047619	0.110276		
19	6	0	1	4	0	49	0	0	6	49 E	0	60	60	0	0.790476	-0.02619	-0.009524	0.040476	-0.02619	0.790476	-0.02619	-0.02619	0.07381		
19	7	0	3	2	0	49	2	1	10	49 E	0	67	67	0	0.692964	-0.03838	0.006397	-0.008529	-0.03838	0.692964	-0.008529	-0.023454	0.110874		
19 all		0	22	26	3	224	6	1	36	224 E	7	318	325	0	0.662174	-0.042228	0.026954	0.039533	-0.032794	0.662174	-0.02336	-0.039084	0.070979		
20	3	11	0	24	1	13	12			24 C	5	61	66	0	0.272131	0.059016	-0.121311	0.272131	-0.104918	0.091803	0.07541				
20	4	5	0	48	1	16	0			48 C	5	70	75	0	0.622857	0.008571	-0.062857	0.622857	-0.048571	0.165714	-0.062857				
20	5	5	0	37	0	10	5			37 C	0	57	57	0	0.578947	0.017544	-0.070175	0.578947	-0.070175	0.105263	0.017544				
20	6	0	0	48	0	9	2			48 C	1	59	60	0	0.776271	-0.037288	-0.037288	0.776271	-0.037288	0.115254	-0.00339				
20	7	0	0	53	0	9	5			53 C	0	67	67	0	0.749254	-0.041791	-0.041791	0.749254	-0.041791	0.092537	0.032836				
20 all		21	0	210	2	57	23			210 C	11	314	325	0	0.602548	0.000637	-0.066242	0.602548	-0.059873	0.115287	0.007006				
21	3	0	7	9	2	0	21	20		20 G	7	59	66	0	0.228814	-0.110169	0.008475	0.042373	-0.076271	-0.110169	0.245763	0.228814			
21	4	0	5	14	0	2	21	26		26 G	7	68	75	0	0.279412	-0.102941	-0.029412	0.102941	-0.102941	-0.073529	0.205882	0.279412			
21	5	0	4	15	1	0	11	26		26 G	0	57	57	0	0.365497	-0.090643	-0.020468	0.172515	-0.073099	-0.090643	0.102339	0.365497			
21	6	0	4	6	0	0	7	43		43 G	0	60	60	0	0.669444	-0.047222	0.019444	0.052778	-0.047222	-0.047222	0.069444	0.669444			
21	7	0	1	5	0	1	11	48		48 G	1	66	67	0	0.681818	-0.045455	-0.030303	0.030303	-0.045455	-0.030303	0.121212	0.681818			
21 all		0	21	49	3	3	71	163		163 G	15	310	325	0	0.446774	-0.079032	-0.01129	0.079032	-0.069355	-0.069355	0.15	0.446774			
22	3	1	18	9	0	0	14	1	17	18 B	6	60	66	0	0.2	-0.083333		0.2	0.05	-0.1	-0.1	0.133333	-0.083333	0.183333	
22	4	2	22	8	0	0	10	0	26	22 B	7	68	75	0	0.226891	-0.067227	0.226891	0.021008	-0.096639	-0.096639	0.05042	-0.096639	0.285714		
22	5	1	24	3	0	1	5	1	22	24 B	0	57	57	0	0.338346	-0.065163	0.338346	-0.030075	-0.082707	-0.065163	0.005013	-0.065163	0.303258		
22	6	0	32	2	0	0	4	1	21	32 B	0	60	60	0	0.466667	-0.066667	0.466667	-0.033333	-0.066667	-0.066667	0	-0.05	0.283333		
22	7	0	28	2	1	1	7	0	26	28 B	1	66	67	1	0.341991	-0.082251	0.341991	-0.051948	-0.0671	-0.0671	0.02381	-0.082251	0.311688		
22 all		4	124	24	1	2	40	3	112	124 B	14	311	325	1	0.312816	-0.073036	0.312816	-0.008728	-0.082683	-0.079467	0.042719	-0.076252	0.274231		
23	3	1	0	7	9	0	22	5	7	6	22 F	9	57	66	0	0.309211	-0.059211	-0.076754	0.046053	0.08114	-0.076754	0.309211	0.010965	0.046053	0.028509
23	4	0	1	1	10	0	39	4	9	3	39 F	8	67	75	0	0.529851	-0.052239	-0.037313	-0.037313	0.097015	-0.052239	0.529851	0.007463	0.08209	-0.007463
23	5	5	1	2	6	0	39	1	3	0	39 F	0	57	57	0	0.644737	0.048246	-0.02193	-0.004386	0.065789	-0.039474	0.644737	-0.02193	0.013158	-0.039474
23	6	1	0	0	8	1	41	3	3	2	41 F	1	59	60	0	0.65678	-0.021186	-0.038136	-0.038136	0.097458	-0.021186	0.65678	0.012712	0.012712	-0.004237
23	7	1	2	1	9	0	48	2	2	0	48 F	2	65	67	0	0.705769	-0.017308	-0.001923	-0.017308	0.105769	-0.032692	0.705769	-0.001923	-0.001923	-0.032692
23 all		8	4	11	42	1	189	15	24	11	189 F	20	305	325	0	0.572131	-0.021311	-0.034426	-0.011475	0.090164	-0.044262	0.572131	0.001639	0.031148	-0.011475
24	3	0	0	8	5	10	2	21	1	10	10 E	9	57	66	0	0.072368	-0.10307	-0.10307	0.037281	-0.015351	0.072368	-0.067982	0.265351	-0.085526	0.072368
24	4	0	1	10	5	18	2	14	2	11	18 E	12	63	75	0	0.196429	-0.089286	-0.073413	0.069444	-0.009921	0.196429	-0.05754	0.132937	-0.05754	0.085317
24	5	0	0	9	1	24	0	16	0	7	24 E	0	57	57	0	0.348684	-0.072368	-0.072368	0.085526	-0.054825	0.348684	-0.072368	0.208333	-0.072368	0.050439
24	6	1	0	4	2	37	1	6	0	5	37 E	4	56	60	0	0.618304	-0.024554	-0.042411	0.029018	-0.006696	0.618304	-0.024554	0.064732	-0.042411	0.046875
24	7	0	0	2	4	47	1	7	0	5	47 E	1	66	67	0	0.676136	-0.035985	-0.035985	-0.005682	0.024621	0.676136	-0.020833	0.070076	-0.035985	0.039773
24 all		1	1	33	17	136	6	64	3	38	136 E	26	299	325	0	0.386706	-0.064799	-0.064799	0.042224	-0.011288	0.386706	-0.048077	0.145903	-0.05811	0.058946
25	3	10	0	14	14	1	13	0	1	3	14 C	10	56	66	0	0.15625	0.084821	-0.09375	0.15625	0.15625	-0.075893	0.138393	-0.09375	-0.075893	-0.040179
25	4	2	0	46	5	0	14	0	0	1	46 C	7	68	75	0	0.636029	-0.011029	-0.040441	0.636029	0.033088	-0.040441	0.165441	-0.040441	-0.040441	-0.025735
25	5	2	0	34	4	0	11	1	0	5	34 C	0	57	57	0	0.546053	-0.015351	-0.050439	0.546053	0.019737	-0.050439	0.142544	-0.032895	-0.050439	0.037281
25	6	1	0	41	3	0	11	0	1	3	41 C	0	60	60	0	0.64375	-0.022917	-0.039583	0.64375	0.010417	-0.039583	0.14375	-0.039583	-0.022917	0.010417
25	7	2	0	49	2	0	10	0	1	2	49 C	1	66	67	0	0.710227	-0.001894	-0.032197	0.710227	-0.001894	-0.032197	0.119318	-0.032197	-0.017045	-0.001894
25 all		17	0	184	28	1	59	1	3	14	184 C	18	307	325	0	0.549267	0.005293	-0.050081	0.549267	0.041124	-0.046824	0.142101	-0.046824	-0.040309	-0.004479
26	3	0	14	0	36	3	2	0	4	36 D	7	59	66	0	0.554479	-0.05569	0.181598	-0.05569	0.554479	-0.004843	-0.021792	-0.05569	0.012107		
26	4	0	1	1	55	3	0	0	6	55 D	9	66	75	0	0.809524	-0.02381	-0.008658	-0.008658	0.809524	0.021645	-0.02381	-0.02381	0.0671		
26	5	1	7	1	39	3	0	0	6	39 D	0	57	57	0	0.639098	-0.027569	0.077694	-0.027569	0.639098	0.007519	-0.045113	-0.045113	0.06015		
26	6	1	3	0	56	0	0	0	0	56 D	0	60	60	0	0.92381	0.007143	0.040476	-0.009524	0.92381	-0.009524	-0.009524	-0.009524	-0.009524		
26	7	0	2	0	57	2	0	0	4	57 D	2	65	67	0	0.859341	-0.017582	0.013187	-0.017582	0.859341	0.013187	-0.017582	-0.017582	0.043956		
26 all		2	27	2	243	11	2	0	20	243 D	18	307	325	0	0.761175	-0.023267	0.058167	-0.023267	0.761175	0.006049	-0.023267	-0.029781	0.035365		
27	3	0	5	0	3	9	6	0	14	22	22 I	7	59	66	0	0.294492	-0.07839	0.006356	-0.07839	-0.027542	0.074153	0.023305	-0.07839	0.158898	0.294492
27	4	0	3	1	5	6	8	0	13	32	32 I	7	68	75	0	0.404412	-0.066176	-0.022059	-0.051471	0.007353	0.022059	0.051471	-0.066176	0.125	0.404412
27	5	0	5	1	5	6	2	0	10	27	27 I	0	57	57	1	0.407895	-0.065789	0.02193	-0.048246	0.02193	0.039474	-0.030702	-0.065789	0.109649	0.407895
27	6	0	1	0	3	1	2	0	10	42	42 I	1	59	60	0	0.675847	-0.036017	-0.019068	-0.036017	0.014831	-0.019068	-0.002119	-0.036017	0.133475	0.675847
27	7	0	2	0	4	1	7	0	2	46	46 I	4	63	67	1	0.696429	-0.03373	-0.001984	-0.03373	0.029762	-0.017857	0.077381	-0.03373	-0.001984	0.696429
27 all		0	16	2	20	23	25	0	49	169	169 I	19	306	325	2	0.496324	-0.055964	-0.003676	-0.049428	0.009395	0.019199	0.025735	-0.055964	0.104167	0.496324
28	3	0	7	1	31	0	12	2	0	4	31 D	9	57	66	0	0.486842	-0.057018	0.065789	-0.039474	0.486842	-0.057018	0.153509	-0.02193	-0.057018	0.013158
28	4	1	1	2	39	1	14	4	0	1	39 D	11	64	75	1	0.560547	-0.033203	-0.033203	-0.017578	0.560547	-0.033203	0.169922	0.013672	-0.048828	-0.033203

28	5	0	5	0	42	1	8	0	0	1	42 D	0	57	57	0	0.703947	-0.032895	0.054825	-0.032895	0.703947	-0.015351	0.107456	-0.032895	-0.032895	-0.015351
28	6	0	1	0	52	0	4	0	0	2	52 D	1	59	60	0	0.866525	-0.014831	0.002119	-0.014831	0.866525	-0.014831	0.052966	-0.014831	-0.014831	0.019068
28	7	0	0	0	59	0	2	0	1	2	59 D	3	64	67	0	0.912109	-0.009766	-0.009766	-0.009766	0.912109	-0.009766	0.021484	-0.009766	0.005859	0.021484
28 all	1	14	3	223	2	40	6	1	10	223 D	24	301	325	1	0.708472	-0.02907	0.01412	-0.022425	0.708472	-0.025748	0.100498	-0.012458	-0.02907	0.000831	
29	3	0	8	8	0	0	15	26			26 G	9	57	66	0	0.365497	-0.090643	0.049708	0.049708	-0.090643	-0.090643	0.172515	0.365497		
29	4	0	2	7	0	0	14	38			38 G	14	61	75	0	0.560109	-0.062842	-0.030055	0.051913	-0.062842	-0.062842	0.166667	0.560109		
29	5	0	4	6	1	1	12	33			33 G	0	57	57	0	0.508772	-0.070175	0	0.035088	-0.052632	-0.052632	0.140351	0.508772		
29	6	0	2	6	0	0	2	49			49 G	1	59	60	0	0.80226	-0.028249	0.00565	0.073446	-0.028249	-0.028249	0.00565	0.80226		
29	7	0	3	3	0	0	3	55			55 G	3	64	67	0	0.835938	-0.023438	0.023438	0.023438	-0.023438	-0.023438	0.023438	0.835938		
29 all	0	19	30	1	1	46	201				201 G	27	298	325	0	0.620246	-0.054251	0.009508	0.046421	-0.050895	-0.050895	0.100112	0.620246		
30	3	0	4	2	18	0	0	2	0	29	29 I	11	55	66	0	0.468182	-0.059091	0.013636	-0.022727	0.268182	-0.059091	-0.059091	-0.022727	-0.059091	0.468182
30	4	0	3	4	9	0	0	8	0	36	36 I	15	60	75	0	0.55	-0.05	0	0.016667	0.1	-0.05	-0.05	0.083333	-0.05	0.55
30	5	2	1	2	11	0	0	2	0	37	37 I	1	56	57	1	0.618304	-0.006696	-0.024554	-0.006696	0.154018	-0.042411	-0.042411	-0.006696	-0.042411	0.618304
30	6	0	0	1	10	0	0	5	0	43	43 I	1	59	60	0	0.694915	-0.033898	-0.033898	-0.016949	0.135593	-0.033898	-0.033898	0.050847	-0.033898	0.694915
30	7	0	1	1	9	0	0	5	0	48	48 I	3	64	67	0	0.71875	-0.03125	-0.015625	-0.015625	0.109375	-0.03125	-0.03125	0.046875	-0.03125	0.71875
30 all	2	9	10	57	0	0	22	0	193	193 I	31	294	325	1	0.61352	-0.036139	-0.01233	-0.008929	0.150935	-0.042942	-0.042942	0.031888	-0.042942	0.61352	
31	3	0	6	13	12	1	10	0	0	13	12 D	11	55	66	0	0.120455	-0.097727	0.011364	0.138636	0.120455	-0.079545	0.084091	-0.097727	-0.097727	0.138636
31	4	0	3	11	31	0	9	0	0	6	31 D	15	60	75	0	0.45625	-0.060417	-0.010417	0.122917	0.45625	-0.060417	0.089583	-0.060417	-0.060417	0.039583
31	5	1	5	13	23	0	6	0	0	4	23 D	1	56	57	0	0.337054	-0.055804	0.015625	0.158482	0.337054	-0.073661	0.033482	-0.073661	-0.073661	-0.002232
31	6	0	0	14	38	0	6	0	0	2	38 D	0	60	60	0	0.5875	-0.045833	-0.045833	0.1875	0.5875	-0.045833	0.054167	-0.045833	-0.045833	-0.0125
31	7	0	2	8	50	0	3	0	0	2	50 D	2	65	67	0	0.740385	-0.028846	0.001923	0.094231	0.740385	-0.028846	0.017308	-0.028846	-0.028846	0.001923
31 all	1	16	63	154	1	34	0	0	27	154 D	29	296	325	0	0.460304	-0.056588	-0.005912	0.152872	0.460304	-0.056588	0.054899	-0.059966	-0.059966	0.03125	

Item	Grade	A	B	C	D	right ans	right missi	attempts	doub	N	IF	IF - A	IF - B	IF - C	IF - D
1	3	12	44	5	5	44 B	0	66	0	66	0.555556	-0.090909	0.555556	-0.232323	-0.232323
1	4	9	58	6	2	58 B	0	75	0	75	0.697778	-0.173333	0.697778	-0.226667	-0.297778
1	5	4	40	4	9	40 B	0	57	0	57	0.602339	-0.239766	0.602339	-0.239766	-0.122807
1	6	5	45	6	4	45 B	0	60	0	60	0.666667	-0.222222	0.666667	-0.2	-0.244444
1	7	5	52	8	1	52 B	1	66	0	67	0.717172	-0.232323	0.717172	-0.171717	-0.313131
1 all		35	239	29	21	239 B	1	324	0	325	0.650206	-0.1893	0.650206	-0.213992	-0.246914
2	3	57	1	5	2	57 A	1	65	0	66	0.835897	0.835897	-0.312821	-0.230769	-0.292308
2	4	68	2	4	1	68 A	0	75	0	75	0.875556	0.875556	-0.297778	-0.262222	-0.315556
2	5	52	1	3	1	52 A	0	57	0	57	0.906433	0.883041	-0.309942	-0.263158	-0.309942
2	6	58	0	2	0	58 A	0	60	0	60	0.955556	0.955556	-0.333333	-0.288889	-0.333333
2	7	65	0	2	0	65 A	0	67	0	67	0.960199	0.960199	-0.333333	-0.293532	-0.333333
2 all		300	4	16	4	300 A	1	324	0	325	0.901235	0.901235	-0.316872	-0.26749	-0.316872
3	3	6	0	55	4	55 C	1	65	0	66	0.794872	-0.210256	-0.333333	0.794872	-0.251282
3	4	6	1	65	1	65 C	2	73	0	75	0.853881	-0.223744	-0.315068	0.853881	-0.315068
3	5	0	0	54	3	54 C	0	57	0	57	0.929825	-0.333333	-0.333333	0.929825	-0.263158
3	6	1	2	56	1	56 C	0	60	0	60	0.911111	-0.311111	-0.288889	0.911111	-0.311111
3	7	1	1	62	2	62 C	1	66	0	67	0.919192	-0.313131	-0.313131	0.919192	-0.292929
3 all		14	4	292	11	292 C	4	321	0	325	0.879543	-0.275182	-0.316719	0.879543	-0.287643
4	3	2	9	4	48	48 D	3	63	0	66	0.68254	-0.291005	-0.142857	-0.248677	0.68254
4	4	4	3	11	57	57 D	0	75	0	75	0.68	-0.262222	-0.28	-0.137778	0.68
4	5	3	3	7	43	43 D	1	56	0	57	0.690476	-0.261905	-0.261905	-0.166667	0.690476
4	6	1	3	2	53	53 D	1	59	0	60	0.864407	-0.310734	-0.265537	-0.288136	0.864407
4	7	1	1	6	58	58 D	1	66	0	67	0.838384	-0.313131	-0.313131	-0.212121	0.838384
4 all		11	19	30	259	259 D	6	319	0	325	0.749216	-0.287356	-0.253918	-0.207941	0.749216
5	3	6	57	0	3	57 B	0	66	0	66	0.818182	-0.212121	0.818182	-0.333333	-0.272727
5	4	6	68	1	0	68 B	0	75	0	75	0.875556	-0.226667	0.875556	-0.315556	-0.333333
5	5	5	50	0	0	50 B	2	55	0	57	0.878788	-0.212121	0.878788	-0.333333	-0.333333
5	6	3	56	0	1	56 B	0	60	0	60	0.911111	-0.266667	0.911111	-0.333333	-0.311111
5	7	0	67	0	0	67 B	0	67	0	67	1	-0.333333	1	-0.333333	-0.333333
5 all		20	298	1	4	298 B	2	323	0	325	0.896801	-0.250774	0.896801	-0.329205	-0.316821
6	3	40	3	2	18	40 A	3	63	0	66	0.513228	0.513228	-0.269841	-0.291005	0.047619
6	4	45	6	0	23	45 A	1	74	0	75	0.477477	0.477477	-0.225225	-0.333333	0.081081
6	5	35	3	4	14	35 A	1	56	0	57	0.5	0.5	-0.261905	-0.238095	0
6	6	46	4	1	8	46 A	1	59	0	60	0.706215	0.706215	-0.242938	-0.310734	-0.152542
6	7	52	4	3	8	52 A	0	67	0	67	0.701493	0.701493	-0.253731	-0.273632	-0.174129

6 all	218	20	10	71	218 A	6	319	0	325	0.577847	0.577847	-0.249739	-0.291536	-0.036573	
7	3	4	20	34	6	34 C	2	64	0	66	0.375	-0.25	0.083333	0.375	-0.208333
7	4	10	11	52	2	52 C	0	75	0	75	0.591111	-0.155556	-0.137778	0.591111	-0.297778
7	5	8	10	38	1	38 C	0	57	0	57	0.555556	-0.146199	-0.099415	0.555556	-0.309942
7	6	6	6	44	2	44 C	2	58	0	60	0.678161	-0.195402	-0.195402	0.678161	-0.287356
7	7	4	9	51	3	51 C	0	67	0	67	0.6846	-0.253731	-0.154229	0.681592	-0.273632
7 all	32	56	219	14	219 C	4	321	0	325	0.576324	-0.200415	-0.100727	0.576324	-0.275182	
8	3	6	5	6	49	49 D	0	66	0	66	0.656566	-0.212121	-0.232323	-0.212121	0.656566
8	4	5	4	5	57	57 D	4	71	0	75	0.737089	-0.239437	-0.258216	-0.239437	0.737089
8	5	3	1	3	49	49 D	1	56	0	57	0.833333	-0.261905	-0.309524	-0.261905	0.833333
8	6	4	2	2	52	52 D	0	60	0	60	0.822222	-0.244444	-0.288889	-0.288889	0.822222
8	7	1	1	3	61	61 D	1	66	0	67	0.89899	-0.313131	-0.313131	-0.272727	0.89899
8 all	19	13	19	268	268 D	6	319	0	325	0.786834	-0.253918	-0.278997	-0.253918	0.786834	
9	3	10	46	8	0	46 B	2	64	0	66	0.625	-0.125	0.625	-0.166667	-0.333333
9	4	8	55	11	0	55 B	1	74	0	75	0.657658	-0.189189	0.657658	-0.135135	-0.333333
9	5	10	41	5	1	41 B	0	57	0	57	0.625731	-0.099415	0.625731	-0.216374	-0.309942
9	6	3	50	5	1	50 B	1	59	0	60	0.79661	-0.265537	0.79661	-0.220339	-0.310734
9	7	3	61	2	1	61 B	0	67	0	67	0.880597	-0.273632	0.880597	-0.293532	-0.313433
9 all	34	253	31	3	253 B	4	321	0	325	0.717549	-0.192108	0.717549	-0.204569	-0.320872	
10	3	4	53	2	5	53 B	2	64	0	66	0.770833	-0.25	0.770833	-0.291667	-0.229167
10	4	1	61	5	5	61 B	3	72	0	75	0.796296	-0.314815	0.796296	-0.240741	-0.240741
10	5	2	46	7	2	46 B	0	57	0	57	0.74269	-0.28655	0.74269	-0.169591	-0.28655
10	6	2	52	1	3	52 B	2	58	0	60	0.862069	-0.287356	0.862069	-0.310345	-0.264368
10	7	1	61	1	4	61 B	0	67	0	67	0.880597	-0.313433	0.880597	-0.313433	-0.253731
10 all	10	273	16	19	273 B	7	318	0	325	0.811321	-0.291405	0.811321	-0.266247	-0.253669	
11	3	5	12	44	3	44 C	2	64	0	66	0.583333	-0.229167	-0.083333	0.583333	-0.270833
11	4	10	19	40	2	40 C	4	71	0	75	0.41784	-0.14554	0.023474	0.41784	-0.295775
11	5	9	9	38	1	38 C	0	57	0	57	0.555556	-0.122807	-0.122807	0.555556	-0.309942
11	6	10	9	38	1	38 C	2	58	0	60	0.54023	-0.103448	-0.126437	0.54023	-0.310345
11	7	8	5	51	1	51 C	2	65	0	67	0.712821	-0.169231	-0.230769	0.712821	-0.312821
11 all	42	54	211	8	211 C	10	315	0	325	0.559788	-0.155556	-0.104762	0.559788	-0.299471	
12	3	8	4	46	5	46 C	3	63	0	66	0.640212	-0.164021	-0.248677	0.640212	-0.227513
12	4	7	11	50	4	50 C	3	72	0	75	0.592593	-0.203704	-0.12963	0.592593	-0.259259
12	5	7	3	43	4	43 C	2	55	0	57	0.709091	-0.175758	-0.272727	0.69697	-0.248485
12	6	4	4	49	3	49 C	0	60	0	60	0.755556	-0.244444	-0.244444	0.755556	-0.266667
12	7	4	3	56	4	56 C	0	67	0	67	0.781095	-0.253731	-0.273632	0.781095	-0.253731

12 all		28	25	244	20	244 C	8	317	0	325	0.692955	-0.215563	-0.228181	0.692955	-0.249211
13	3	22	34	4	2	34 B	2	64	2	66	0.375	0.135417	0.385417	-0.239583	-0.28125
13	4	16	52	2	5	52 B	0	75	0	75	0.591111	-0.048889	0.591111	-0.297778	-0.244444
13	5	6	45	2	3	45 B	1	56	0	57	0.738095	-0.190476	0.738095	-0.285714	-0.261905
13	6	8	47	2	3	47 B	0	60	0	60	0.711111	-0.155556	0.711111	-0.288889	-0.266667
13	7	0	59	0	6	59 B	2	65	0	67	0.876923	-0.333333	0.876923	-0.333333	-0.210256
13 all		54	237	10	19	237 B	3	322	2	325	0.648033	-0.10766	0.650104	-0.289855	-0.252588
14	3	6	8	41	8	41 C	2	64	1	66	0.520833	-0.203125	-0.161458	0.526042	-0.161458
14	4	9	7	54	4	54 C	1	74	0	75	0.63964	-0.171171	-0.207207	0.63964	-0.261261
14	5	6	7	39	2	39 C	3	54	0	57	0.62963	-0.185185	-0.160494	0.62963	-0.283951
14	6	3	6	48	2	48 C	1	59	0	60	0.751412	-0.265537	-0.19774	0.751412	-0.288136
14	7	2	4	58	3	58 C	0	67	0	67	0.820896	-0.293532	-0.253731	0.820896	-0.273632
14 all		26	32	240	19	240 C	7	318	1	325	0.672956	-0.22327	-0.198113	0.674004	-0.252621
15	3	52	3	0	9	52 A	2	64	0	66	0.75	0.75	-0.270833	-0.333333	-0.145833
15	4	64	0	2	8	64 A	1	74	0	75	0.81982	0.81982	-0.333333	-0.297297	-0.189189
15	5	53	0	0	4	53 A	0	57	0	57	0.906433	0.906433	-0.333333	-0.333333	-0.239766
15	6	50	2	0	6	50 A	2	58	0	60	0.816092	0.816092	-0.287356	-0.333333	-0.195402
15	7	59	0	0	8	59 A	0	67	0	67	0.840796	0.840796	-0.333333	-0.333333	-0.174129
15 all		278	5	2	35	278 A	5	320	0	325	0.825	0.825	-0.3125	-0.325	-0.1875
16	3	45	10	3	5	45 A	3	63	0	66	0.619048	0.619048	-0.121693	-0.269841	-0.227513
16	4	46	17	7	3	46 A	2	73	0	75	0.506849	0.506849	-0.022831	-0.205479	-0.278539
16	5	42	7	3	5	42 A	0	57	0	57	0.649123	0.649123	-0.169591	-0.263158	-0.216374
16	6	48	6	3	3	48 A	0	60	0	60	0.733333	0.733333	-0.2	-0.266667	-0.266667
16	7	60	2	1	4	60 A	0	67	0	67	0.860697	0.860697	-0.293532	-0.313433	-0.253731
16 all		241	42	17	20	241 A	5	320	0	325	0.670833	0.670833	-0.158333	-0.2625	-0.25
17	3	51	9	2	1	51 A	2	64	1	66	0.729167	0.734375	-0.140625	-0.286458	-0.307292
17	4	63	8	0	3	63 A	1	74	0	75	0.801802	0.801802	-0.189189	-0.333333	-0.279279
17	5	46	8	2	1	46 A	0	57	0	57	0.74269	0.74269	-0.146199	-0.28655	-0.309942
17	6	48	8	1	3	48 A	0	60	0	60	0.733333	0.733333	-0.155556	-0.311111	-0.266667
17	7	63	3	0	1	63 A	0	67	0	67	0.920398	0.920398	-0.273632	-0.333333	-0.313433
17 all		271	36	5	9	271 A	3	322	1	325	0.78882	0.789855	-0.18323	-0.311594	-0.295031
18	3	48	7	2	3	48 A	6	60	0	66	0.733333	0.733333	-0.177778	-0.288889	-0.266667
18	4	67	2	4	0	67 A	2	73	0	75	0.890411	0.890411	-0.296804	-0.260274	-0.333333
18	5	48	5	2	2	48 A	0	57	0	57	0.789474	0.789474	-0.216374	-0.28655	-0.28655
18	6	55	4	1	0	55 A	0	60	0	60	0.888889	0.888889	-0.244444	-0.311111	-0.333333
18	7	61	4	2	0	61 A	0	67	0	67	0.880597	0.880597	-0.253731	-0.293532	-0.333333

18 all	279	22	11	5	279 A	8	317	0	325	0.840168	0.840168	-0.240799	-0.287066	-0.312303	
19	3	1	51	4	4	51 B	6	60	0	66	0.8	-0.311111	0.8	-0.244444	-0.244444
19	4	2	64	0	6	64 B	3	72	0	75	0.851852	-0.296296	0.851852	-0.333333	-0.222222
19	5	0	49	2	5	49 B	1	56	0	57	0.833333	-0.333333	0.833333	-0.285714	-0.214286
19	6	0	54	0	6	54 B	0	60	0	60	0.866667	-0.333333	0.866667	-0.333333	-0.2
19	7	0	64	1	2	64 B	0	67	0	67	0.940299	-0.333333	0.940299	-0.313433	-0.293532
19 all	3	282	7	23	282 B	10	315	0	325	0.860317	-0.320635	0.860317	-0.303704	-0.235979	
20	3	50	6	3	2	50 A	5	61	0	66	0.759563	0.759563	-0.202186	-0.26776	-0.289617
20	4	53	11	4	2	53 A	5	70	0	75	0.67619	0.67619	-0.12381	-0.257143	-0.295238
20	5	48	4	1	3	48 A	1	56	0	57	0.809524	0.809524	-0.238095	-0.309524	-0.261905
20	6	52	6	1	0	52 A	1	59	0	60	0.841808	0.841808	-0.19774	-0.310734	-0.333333
20	7	58	4	4	1	58 A	0	67	0	67	0.820896	0.820896	-0.253731	-0.253731	-0.313433
20 all	261	31	13	8	261 A	12	313	0	325	0.778488	0.778488	-0.201278	-0.277955	-0.299255	
21	3	7	44	2	7	44 B	5	61	1	66	0.628415	-0.174863	0.63388	-0.284153	-0.174863
21	4	14	52	1	3	52 B	5	70	0	75	0.657143	-0.066667	0.657143	-0.314286	-0.27619
21	5	5	46	5	1	46 B	0	57	0	57	0.74269	-0.216374	0.74269	-0.216374	-0.309942
21	6	6	54	0	0	54 B	0	60	0	60	0.866667	-0.2	0.866667	-0.333333	-0.333333
21	7	2	61	2	2	61 B	0	67	0	67	0.880597	-0.293532	0.880597	-0.293532	-0.293532
21 all	34	257	10	13	257 B	10	315	1	325	0.754497	-0.18836	0.755556	-0.289947	-0.277249	
22	3	42	10	3	4	42 A	7	59	0	66	0.615819	0.615819	-0.107345	-0.265537	-0.242938
22	4	42	21	4	5	42 A	3	72	0	75	0.444444	0.444444	0.055556	-0.259259	-0.240741
22	5	38	13	1	5	38 A	0	57	0	57	0.555556	0.555556	-0.02924	-0.309942	-0.216374
22	6	48	11	0	1	48 A	0	60	0	60	0.733333	0.733333	-0.088889	-0.333333	-0.311111
22	7	51	11	1	3	51 A	1	66	0	67	0.69697	0.69697	-0.111111	-0.313131	-0.272727
22 all	221	66	9	18	221 A	11	314	0	325	0.605096	0.605096	-0.053079	-0.295117	-0.2569	
23	3	7	3	4	47	47 D	5	61	0	66	0.693989	-0.180328	-0.26776	-0.245902	0.693989
23	4	9	1	2	60	60 D	3	72	0	75	0.777778	-0.166667	-0.314815	-0.296296	0.777778
23	5	12	2	0	43	43 D	0	57	0	57	0.672515	-0.052632	-0.28655	-0.333333	0.672515
23	6	6	1	1	52	52 D	0	60	0	60	0.822222	-0.2	-0.311111	-0.311111	0.822222
23	7	6	1	2	58	58 D	0	67	0	67	0.820896	-0.21393	-0.313433	-0.293532	0.820896
23 all	40	8	9	260	260 D	8	317	0	325	0.760252	-0.165089	-0.299685	-0.295478	0.760252	
24	3	4	43	8	4	43 B	7	59	0	66	0.638418	-0.242938	0.638418	-0.152542	-0.242938
24	4	4	52	9	1	52 B	9	66	0	75	0.717172	-0.252525	0.717172	-0.151515	-0.313131
24	5	2	37	14	2	37 B	2	55	0	57	0.563636	-0.284848	0.563636	0.006061	-0.284848
24	6	3	45	10	1	45 B	1	59	0	60	0.683616	-0.265537	0.683616	-0.107345	-0.310734
24	7	5	55	7	0	55 B	0	67	0	67	0.761194	-0.233831	0.761194	-0.19403	-0.333333

24 all		18	232	48	8	232 B	19	306	0	325	0.67756	-0.254902	0.67756	-0.124183	-0.298475
25	3	48	1	9	2	48 A	6	60	0	66	0.733333	0.733333	-0.311111	-0.133333	-0.288889
25	4	60	4	1	6	60 A	4	71	0	75	0.793427	0.793427	-0.258216	-0.314554	-0.220657
25	5	47	5	3	1	47 A	1	56	0	57	0.785714	0.785714	-0.214286	-0.261905	-0.309524
25	6	50	2	3	4	50 A	1	59	0	60	0.796661	0.796661	-0.288136	-0.265537	-0.242938
25	7	62	1	2	2	62 A	0	67	0	67	0.900498	0.900498	-0.313433	-0.293532	-0.293532
25 all		267	13	18	15	267 A	12	313	0	325	0.804047	0.804047	-0.277955	-0.256656	-0.269436
26	3	3	48	5	1	48 B	9	57	0	66	0.789474	-0.263158	0.789474	-0.216374	-0.309942
26	4	3	64	2	1	64 B	5	70	0	75	0.885714	-0.27619	0.885714	-0.295238	-0.314286
26	5	2	48	1	4	48 B	2	55	0	57	0.830303	-0.284848	0.830303	-0.309091	-0.236364
26	6	5	54	0	1	54 B	0	60	0	60	0.866667	-0.222222	0.866667	-0.333333	-0.311111
26	7	1	65	0	0	65 B	1	66	0	67	0.979798	-0.313131	0.979798	-0.333333	-0.333333
26 all		14	279	8	7	279 B	17	308	0	325	0.874459	-0.272727	0.874459	-0.298701	-0.30303
27	3	47	3	1	3	47 A	12	54	0	66	0.82716	0.82716	-0.259259	-0.308642	-0.259259
27	4	65	1	3	1	65 A	5	70	0	75	0.904762	0.904762	-0.314286	-0.27619	-0.314286
27	5	50	2	1	2	50 A	2	55	0	57	0.878788	0.878788	-0.284848	-0.309091	-0.284848
27	6	55	2	0	2	55 A	1	59	0	60	0.909605	0.909605	-0.288136	-0.333333	-0.288136
27	7	65	0	0	2	65 A	0	67	0	67	0.960199	0.960199	-0.333333	-0.333333	-0.293532
27 all		282	8	5	10	282 A	20	305	0	325	0.899454	0.899454	-0.298361	-0.311475	-0.289617
28	3	3	13	4	34	34 D	12	54	0	66	0.506173	-0.259259	-0.012346	-0.234568	0.506173
28	4	1	11	5	51	51 D	7	68	0	75	0.666667	-0.313725	-0.117647	-0.235294	0.666667
28	5	3	6	1	45	45 D	2	55	0	57	0.757576	-0.260606	-0.187879	-0.309091	0.757576
28	6	1	5	4	49	49 D	1	59	0	60	0.774011	-0.310734	-0.220339	-0.242938	0.774011
28	7	0	4	4	59	59 D	0	67	0	67	0.840796	-0.333333	-0.253731	-0.253731	0.840796
28 all		8	39	18	238	238 D	22	303	0	325	0.713971	-0.29813	-0.161716	-0.254125	0.713971
29	3	9	2	2	38	38 D	15	51	0	66	0.660131	-0.098039	-0.281046	-0.281046	0.660131
29	4	8	2	3	52	52 D	10	65	0	75	0.733333	-0.169231	-0.292308	-0.271795	0.733333
29	5	6	2	3	44	44 D	2	55	0	57	0.733333	-0.187879	-0.284848	-0.260606	0.733333
29	6	4	2	0	52	52 D	2	58	0	60	0.862069	-0.241379	-0.287356	-0.333333	0.862069
29	7	4	0	1	61	61 D	1	66	0	67	0.89899	-0.252525	-0.333333	-0.313131	0.89899
29 all		31	8	9	247	247 D	30	295	0	325	0.783051	-0.19322	-0.297175	-0.292655	0.783051
30	3	2	3	5	38	38 D	18	48	0	66	0.722222	-0.277778	-0.25	-0.194444	0.722222
30	4	2	1	7	47	47 D	18	57	0	75	0.766082	-0.28655	-0.309942	-0.169591	0.766082
30	5	2	1	6	44	44 D	4	53	0	57	0.773585	-0.283019	-0.308176	-0.18239	0.773585
30	6	6	1	4	47	47 D	2	58	0	60	0.747126	-0.195402	-0.310345	-0.241379	0.747126
30	7	1	2	7	57	57 D	0	67	0	67	0.800995	-0.313433	-0.293532	-0.19403	0.800995

30 all		13	8	29	233	233 D	42	283	0	325	0.764429	-0.272085	-0.295642	-0.196702	0.764429
31	3	0	43	4	2	43 B	17	49	0	66	0.836735	-0.333333	0.836735	-0.22449	-0.278912
31	4	0	53	4	3	53 B	15	60	0	75	0.844444	-0.333333	0.844444	-0.244444	-0.266667
31	5	1	45	6	1	45 B	4	53	0	57	0.798742	-0.308176	0.798742	-0.18239	-0.308176
31	6	0	49	3	3	49 B	5	55	0	60	0.854545	-0.333333	0.854545	-0.260606	-0.260606
31	7	0	58	3	5	58 B	1	66	0	67	0.838384	-0.333333	0.838384	-0.272727	-0.232323
31 all		1	248	20	14	248 B	42	283	0	325	0.8351	-0.328622	0.8351	-0.239105	-0.267373
32	3	39	9	0	0	39 A	18	48	0	66	0.75	0.75	-0.083333	-0.333333	-0.333333
32	4	46	4	7	1	46 A	17	58	0	75	0.724138	0.724138	-0.241379	-0.172414	-0.310345
32	5	45	3	5	0	45 A	3	54	1	57	0.777778	0.783951	-0.253086	-0.203704	-0.32716
32	6	49	4	4	0	49 A	3	57	0	60	0.812865	0.812865	-0.239766	-0.239766	-0.333333
32	7	57	4	4	1	57 A	1	66	0	67	0.818182	0.818182	-0.252525	-0.252525	-0.313131
32 all		236	24	20	2	236 A	42	283	1	325	0.778563	0.779741	-0.219081	-0.237927	-0.322733
33	3	2	39	2	3	39 B	20	46	0	66	0.797101	-0.275362	0.797101	-0.275362	-0.246377
33	4	3	49	4	1	49 B	18	57	0	75	0.812865	-0.263158	0.812865	-0.239766	-0.309942
33	5	2	45	3	2	45 B	5	52	0	57	0.820513	-0.282051	0.820513	-0.25641	-0.282051
33	6	4	51	1	1	51 B	3	57	0	60	0.859649	-0.239766	0.859649	-0.309942	-0.309942
33	7	3	61	0	0	61 B	3	64	0	67	0.9375	-0.270833	0.9375	-0.333333	-0.333333
33 all		14	245	10	7	245 B	49	276	0	325	0.850242	-0.2657	0.850242	-0.285024	-0.299517
34	3	2	34	5	5	34 B	20	46	0	66	0.652174	-0.275362	0.652174	-0.188406	-0.188406
34	4	10	35	4	6	35 B	20	55	0	75	0.515152	-0.090909	0.515152	-0.236364	-0.187879
34	5	5	40	3	4	40 B	5	52	0	57	0.692308	-0.205128	0.692308	-0.25641	-0.230769
34	6	1	50	3	2	50 B	4	56	0	60	0.857143	-0.309524	0.857143	-0.261905	-0.285714
34	7	7	54	2	2	54 B	2	65	0	67	0.774359	-0.189744	0.774359	-0.292308	-0.292308
34 all		25	213	17	19	213 B	51	274	0	325	0.703163	-0.211679	0.703163	-0.250608	-0.240876
35	3	4	32	2	5	32 B	23	43	0	66	0.658915	-0.209302	0.658915	-0.271318	-0.178295
35	4	7	40	4	1	40 B	23	52	0	75	0.692308	-0.153846	0.692308	-0.230769	-0.307692
35	5	2	44	3	1	44 B	7	50	0	57	0.84	-0.28	0.84	-0.253333	-0.306667
35	6	3	48	4	0	48 B	5	55	0	60	0.830303	-0.260606	0.830303	-0.236364	-0.333333
35	7	1	59	5	1	59 B	1	66	0	67	0.858586	-0.313131	0.858586	-0.232323	-0.313131
35 all		17	223	18	8	223 B	59	266	0	325	0.784461	-0.24812	0.784461	-0.243108	-0.293233
36	3	1	38	0	2	38 B	25	41	0	66	0.902439	-0.300813	0.902439	-0.333333	-0.268293
36	4	2	47	2	1	47 B	23	52	0	75	0.871795	-0.282051	0.871795	-0.282051	-0.307692
36	5	1	47	2	0	47 B	7	50	0	57	0.92	-0.306667	0.92	-0.28	-0.333333
36	6	0	50	3	1	50 B	5	55	1	60	0.878788	-0.327273	0.884848	-0.254545	-0.30303
36	7	0	64	1	1	64 B	1	66	0	67	0.959596	-0.333333	0.959596	-0.313131	-0.313131

36 all		4	246	8	5	246 B	61	264	1	325	0.909091	-0.311869	0.910354	-0.291667	-0.306818
37	3	4	27	2	6	27 B	27	39	0	66	0.589744	-0.196581	0.589744	-0.264957	-0.128205
37	4	2	36	3	9	36 B	25	50	0	75	0.626667	-0.28	0.626667	-0.253333	-0.093333
37	5	0	46	1	3	46 B	7	50	0	57	0.893333	-0.333333	0.893333	-0.306667	-0.253333
37	6	1	45	4	4	45 B	6	54	0	60	0.777778	-0.308642	0.777778	-0.234568	-0.234568
37	7	1	58	2	5	58 B	1	66	0	67	0.838384	-0.313131	0.838384	-0.292929	-0.232323
37 all		8	212	12	27	212 B	66	259	0	325	0.758044	-0.292149	0.758044	-0.271557	-0.194337
38	3	6	11	19	1	19 C	29	37	0	66	0.351351	-0.117117	0.063063	0.351351	-0.297297
38	4	4	9	35	1	35 C	25	50	1	75	0.6	-0.22	-0.086667	0.606667	-0.3
38	5	4	13	32	1	32 C	7	50	0	57	0.52	-0.226667	0.013333	0.52	-0.306667
38	6	2	8	44	1	44 C	5	55	0	60	0.733333	-0.284848	-0.139394	0.733333	-0.309091
38	7	3	9	54	0	54 C	1	66	0	67	0.757576	-0.272727	-0.151515	0.757576	-0.333333
38 all		19	50	184	4	184 C	67	258	1	325	0.617571	-0.23385	-0.073643	0.618863	-0.31137
39	3	19	5	2	10	19 A	30	36	0	66	0.37037	0.37037	-0.148148	-0.259259	0.037037
39	4	31	7	2	9	31 A	26	49	0	75	0.510204	0.510204	-0.142857	-0.278912	-0.088435
39	5	40	5	1	4	40 A	7	50	0	57	0.733333	0.733333	-0.2	-0.306667	-0.226667
39	6	43	5	0	6	43 A	6	54	0	60	0.728395	0.728395	-0.209877	-0.333333	-0.185185
39	7	55	2	4	4	55 A	2	65	0	67	0.794872	0.794872	-0.292308	-0.251282	-0.251282
39 all		188	24	9	33	188 A	71	254	0	325	0.653543	0.653543	-0.207349	-0.286089	-0.160105
40	3	24	7	2	0	24 A	33	33	0	66	0.636364	0.636364	-0.050505	-0.252525	-0.333333
40	4	40	3	4	1	40 A	27	48	0	75	0.777778	0.777778	-0.25	-0.222222	-0.305556
40	5	40	5	1	1	40 A	10	47	0	57	0.801418	0.801418	-0.191489	-0.304965	-0.304965
40	6	46	5	2	1	46 A	6	54	0	60	0.802469	0.802469	-0.209877	-0.283951	-0.308642
40	7	55	8	0	2	55 A	2	65	0	67	0.794872	0.794872	-0.169231	-0.333333	-0.292308
40 all		205	28	9	5	205 A	78	247	0	325	0.773279	0.773279	-0.182186	-0.28475	-0.306343
41	3	4	0	26	2	26 C	33	33	1	66	0.717172	-0.161616	-0.323232	0.727273	-0.242424
41	4	4	1	41	0	41 C	29	46	0	75	0.855072	-0.217391	-0.304348	0.855072	-0.333333
41	5	2	2	42	2	42 C	9	48	0	57	0.833333	-0.277778	-0.277778	0.833333	-0.277778
41	6	5	1	46	1	46 C	7	53	0	60	0.823899	-0.207547	-0.308176	0.823899	-0.308176
41	7	2	2	60	1	60 C	2	65	0	67	0.897436	-0.292308	-0.292308	0.897436	-0.312821
41 all		17	6	215	6	215 C	80	245	1	325	0.836735	-0.239456	-0.29932	0.838095	-0.29932
42	3	23	3	6	1	23 A	33	33	0	66	0.59596	0.59596	-0.212121	-0.090909	-0.292929
42	4	37	1	4	2	37 A	30	45	1	75	0.762963	0.77037	-0.296296	-0.207407	-0.266667
42	5	40	2	1	3	40 A	11	46	0	57	0.826087	0.826087	-0.275362	-0.304348	-0.246377
42	6	43	4	6	1	43 A	6	54	0	60	0.728395	0.728395	-0.234568	-0.185185	-0.308642
42	7	54	0	9	1	54 A	3	64	0	67	0.791667	0.791667	-0.333333	-0.145833	-0.3125

42 all	197	10	26	8	197 A	83	242	1	325	0.752066	0.753444	-0.27686	-0.188705	-0.287879	
43	3	2	3	21	7	21 C	33	33	0	66	0.515152	-0.252525	-0.212121	0.515152	-0.050505
43	4	1	4	35	3	35 C	32	43	0	75	0.751938	-0.302326	-0.209302	0.751938	-0.24031
43	5	2	3	39	2	39 C	11	46	0	57	0.797101	-0.275362	-0.246377	0.797101	-0.275362
43	6	3	1	47	3	47 C	6	54	0	60	0.82716	-0.259259	-0.308642	0.82716	-0.259259
43	7	3	2	54	4	54 C	4	63	0	67	0.809524	-0.269841	-0.291005	0.809524	-0.248677
43 all	11	13	196	19	196 C	86	239	0	325	0.760112	-0.271967	-0.260809	0.760112	-0.227336	
44	3	21	0	7	2	21 A	36	30	0	66	0.6	0.6	-0.333333	-0.022222	-0.244444
44	4	34	0	4	4	34 A	33	42	0	75	0.746032	0.746032	-0.333333	-0.206349	-0.206349
44	5	35	3	4	4	35 A	11	46	0	57	0.681159	0.681159	-0.246377	-0.217391	-0.217391
44	6	45	1	4	3	45 A	7	53	0	60	0.798742	0.798742	-0.308176	-0.232704	-0.257862
44	7	53	0	5	3	53 A	6	61	0	67	0.825137	0.825137	-0.333333	-0.224044	-0.26776
44 all	188	4	24	16	188 A	93	232	0	325	0.747126	0.747126	-0.310345	-0.195402	-0.241379	
45	3	1	23	8	0	23 B	34	32	0	66	0.625	-0.291667	0.625	0	-0.333333
45	4	0	38	6	1	38 B	30	45	0	75	0.792593	-0.333333	0.792593	-0.155556	-0.303704
45	5	2	39	6	0	39 B	10	47	0	57	0.77305	-0.276596	0.77305	-0.163121	-0.333333
45	6	1	46	6	0	46 B	7	53	0	60	0.823899	-0.308176	0.823899	-0.18239	-0.333333
45	7	1	53	7	0	53 B	6	61	0	67	0.825137	-0.311475	0.825137	-0.180328	-0.333333
45 all	5	199	33	1	199 B	87	238	0	325	0.781513	-0.305322	0.781513	-0.148459	-0.327731	
46	3	10	7	3	10	10 D	36	30	0	66	0.111111	0.111111	-0.022222	-0.2	0.111111
46	4	8	2	4	29	29 D	32	43	0	75	0.565891	-0.085271	-0.271318	-0.209302	0.565891
46	5	14	4	2	26	26 D	10	47	1	57	0.404255	0.070922	-0.212766	-0.269504	0.411348
46	6	11	3	2	37	37 D	7	53	0	60	0.597484	-0.056604	-0.257862	-0.283019	0.597484
46	7	10	1	3	48	48 D	5	62	0	67	0.698925	-0.11828	-0.311828	-0.268817	0.698925
46 all	53	17	14	150	150 D	90	235	1	325	0.51773	-0.031206	-0.235461	-0.252482	0.519149	

Item	Grade	n1	n10	n11	n110	n12	n120	n13	n130	n2	n20	n21	n210	n22	n220	n222	n23	n230	n3	n30	n31	n310	n32	n320	n33	n330	others	right answers	missing	attempts	N	IF
a_23	3					2		5				1	2				53		1									53	1	65	66	0.80303
a_23	4			2		2		6			2	3	1				52			1	1		1					52	2	73	75	0.693333
a_23	5		2			1						1	1				49	1					2					49	0	57	57	0.859649
a_23	6							5									55											55	0	60	60	0.916667
a_23	7							2									64											64	1	66	67	0.955224
a_23	all		2	2		5		18			2	5	4				273	1	1	1	1		4				273	4	321	325	0.84	
b_2	3			2						39	22								1	1								39	1	65	66	0.590909
b_2	4	4	4							42	23		1						1	1								42	2	73	75	0.56
b_2	5	1								40	15		1															40	0	57	57	0.701754
b_2	6									51	9																	51	0	60	60	0.85
b_2	7									53	13								1									53	0	67	67	0.791045
b_2	all	2	6							225	82		2						3	2							225	3	322	325	0.692308	
c_11	3			45		4		3		1		5									1		1		1	n14x1; n40x1	45	3	63	66	0.681818	
c_11	4		1	50		4		3			1	6	3				1				4		1				50	1	74	75	0.666667	
c_11	5			44		3		3				3					1			1						n34x1	44	1	56	57	0.77193	
c_11	6			54		3		2																			54	1	59	60	0.9	
c_11	7			59		1		1			1	2															59	3	64	67	0.880597	
c_11	all		1	252		15		12		1	2	16	3				2			1	5		2	1	n14x1; n34x1; n40x1	252	9	316	325	0.775385		
d_33	3																3			6	1		1	51			51	3	63	66	0.772727	
d_33	4							1			1								1		1		5	64	n42x1	64	1	74	75	0.853333		
d_33	5												1								1		3	51			51	0	57	57	0.894737	
d_33	6																						1	59			59	0	60	60	0.983333	
d_33	7																			1	1			65			65	0	67	67	0.970149	
d_33	all							1			2		2				3		1	7	5		9	290	n42x1	290	4	321	325	0.892308		
e_21	3	1		3		3					1	46	3				1			1				2			46	4	62	66	0.69697	
e_21	4			4		2						60	3				2		1	1			1		n24x1	60	0	75	75	0.8		
e_21	5			1		1						51					2						1				51	1	56	57	0.894737	
e_21	6			2								57	1														57	0	60	60	0.95	
e_21	7	1										63					1								n24x1	63	1	66	67	0.940299		
e_21	all	2		10		6		1				277	7				6		2	2			2	2	n24x2	277	6	319	325	0.852308		
f_3	3		3								2								43	11							43	4	62	66	0.651515	
f_3	4	1																	60	14							60	0	75	75	0.8	
f_3	5	1	1								1								50	4							50	0	57	57	0.877193	
f_3	6		1									1							58								58	0	60	60	0.966667	
f_3	7																		64	3							64	0	67	67	0.955224	
f_3	all	2	5					1		3	1		2					##	32								275	4	321	325	0.846154	
g_12	3					42	1	3		1	3						1		2				2			n24x1	42	6	60	66	0.636364	
g_12	4		1			56		1				3	8							1							56	5	70	75	0.746667	
g_12	5			1		40	1	1			2	2	5												n42x1	40	4	53	57	0.701754		
g_12	6					53	1					2	3										1				53	0	60	60	0.883333	
g_12	7					59						2	2														59	3	64	67	0.880597	
g_12	all		1	1		250	3	5		1	5	9	22				2		2	1			3		n24x1; n42x1	250	18	307	325	0.769231		
h_30	3		1								1	1							9	50							50	4	62	66	0.757576	
h_30	4		1																2	72							72	0	75	75	0.96	
h_30	5		1																6	50							50	0	57	57	0.877193	
h_30	6																		3	56							56	1	59	60	0.933333	
h_30	7																		8	59							59	0	67	67	0.880597	
h_30	all		3							1	1								28	287							287	5	320	325	0.883077	
i_22	3		1	3		6				1	3	1	45	1			1			1							45	3	63	66	0.681818	
i_22	4	1	1			4		1		1		2	57	1			2			1							57	4	71	75	0.76	
i_22	5					2					1	4	48	1			1										48	0	57	57	0.842105	
i_22	6					3				1		1	52	2													52	1	59	60	0.866667	
i_22	7					1					1	1	63														63	0	67	67	0.940299	
i_22	all	1	2	3		16		1		3	5	9	265	5			5			2							265	8	317	325	0.815385	

j_1	3	43	7		1		4		1		1	1		1		43	6	60	66	0.651515		
j_1	4	63	4	1			3	2			1					63	0	75	75	0.84		
j_1	5	50	2		1		1	1	1		1					50	0	57	57	0.877193		
j_1	6	56	2		1		1	1								56	1	59	60	0.933333		
j_1	7	64					2									64	1	66	67	0.955224		
j_1 all		276	13	1	2		12	4	1	1		3	1			276	8	317	325	0.849231		
k_31	3	1		1		1	1	1			1	47	7	2		47	3	63	66	0.712121		
k_31	4			1	1						1	1	64	6		64	0	75	75	0.853333		
k_31	5								1			1	51	2	1	51	0	57	57	0.894737		
k_31	6												57	2	1	57	0	60	60	0.95		
k_31	7												63	3		63	1	66	67	0.940299		
k_31 all		1		1	1	2	1	1		1	2	2	282	20	4	282	4	321	325	0.867692		
l_20	3		5				2	45	2		1	1				45	9	57	66	0.681818		
l_20	4	1	1	1			1	4	60	1	2					60	3	72	75	0.8		
l_20	5	1	4					5	46							46	1	56	57	0.807018		
l_20	6		2		1			4	49	1				1		49	2	58	60	0.816667		
l_20	7							1	62					1		62	3	64	67	0.925373		
l_20 all		2	12	1	1	1	16	262	4	2	2	1				262	18	307	325	0.806154		
m_32	3		1		1	2		1				1	1	53	3	53	3	63	66	0.80303		
m_32	4									1		2	2	67		67	1	74	75	0.893333		
m_32	5							1						54	2	54	0	57	57	0.947368		
m_32	6								1	1				1	55	1	55	1	59	60	0.916667	
m_32	7													2	62	1	62	1	66	67	0.925373	
m_32 all			1		1	2		2	1	2	1	3	6	291	2	291	6	319	325	0.895385		
n_10	3	3	49			2	1	2				1	3	1		49	4	62	66	0.742424		
n_10	4	2	57	1		1	3	8				1				57	2	73	75	0.76		
n_10	5	1	47				3	4		1						47	1	56	57	0.824561		
n_10	6	1	54	1				3								54	1	59	60	0.9		
n_10	7		62	3				1								62	1	66	67	0.925373		
n_10 all		7	269	5		3	7	18		1		2	3	1		269	9	316	325	0.827692		
n_13	3					51		1	1	1		3	1	1	1	51	4	62	66	0.772727		
n_13	4				4	53					10	2		1	1	53	2	73	75	0.706667		
n_13	5		1	1		48	1				3				1	48	1	56	57	0.842105		
n_13	6			2	1	54					3					54	0	60	60	0.9		
n_13	7		1			59					3					59	4	63	67	0.880597		
n_13 all			2	3	5	265	1	1	1	1	22	2	1	2	1	265	11	314	325	0.815385		
o_33	3			1						2		1	2		52	n24x1	52	7	59	66	0.787879	
o_33	4											4		2	68		68	0	75	75	0.906667	
o_33	5							1			1				55		55	0	57	57	0.964912	
o_33	6												1	1	57	1	57	0	60	60	0.95	
o_33	7													1	66		66	0	67	67	0.985075	
o_33 all				1				1	2		2		6	1	4	298	1	n24x1				0.916923
p_21	3	1		2		1		1	48	2	3	1				48	7	59	66	0.727273		
p_21	4		1	2					66	1	1					66	2	73	75	0.88		
p_21	5			1	3				48	1	2			1		48	0	57	57	0.842105		
p_21	6			1	1				56	2						56	0	60	60	0.933333		
p_21	7			1					62	2	1					62	1	66	67	0.925373		
p_21 all		1	1	7	4	1		1	280	2	9	4	1	2		280	10	315	325	0.861538		
q_12	3				50			1	1			1		3	1	n16x1; n24x2	50	8	58	66	0.757576	
q_12	4			1	58			2	1	8	1		1	1		58	2	73	75	0.773333		
q_12	5			1	46	2			1	2	2			1		46	1	56	57	0.807018		
q_12	6				55	1				4						55	0	60	60	0.916667		
q_12	7			1	60				1		1			1		60	3	64	67	0.895522		
q_12 all				2	1	269	3		3	4	14	4	1	1	6	1	269	14	311	325	0.827692	
r_22	3		1		5	1			5	43			2		1	n15x1	43	7	59	66	0.651515	

r_22	4			6		1	3	57		1	2	1				57	4	71	75	0.76	
r_22	5		2	2	1		1	2	46	1	1			1	n15x1; 222x1	46	0	57	57	0.807018	
r_22	6			2				58								58	0	60	60	0.966667	
r_22	7		1	1			2	62								62	1	66	67	0.925373	
r_22	all		4	16	1	1	1	12	266	1	2	4	2	1	n15x1; n222x1	266	12	313	325	0.818462	
s_13	3		1				47	1	2	6			1	1		47	6	60	66	0.712121	
s_13	4	1		2			58		1	9		1			n40x1	58	2	73	75	0.773333	
s_13	5						46	1	2	4	1	1				46	0	57	57	0.807018	
s_13	6		1				56			3						56	0	60	60	0.933333	
s_13	7			1			60			4						60	2	65	67	0.895522	
s_13	all	1	2	3	267	1	1	2	3	26	1	2	1	1	n40x1	267	10	315	325	0.821538	
t_32	3			5			1		2			1	51	1		51	4	62	66	0.772727	
t_32	4		1	1					1		1	2	63	1	2	63	1	74	75	0.84	
t_32	5						1			2	2	2	49	1		49	0	57	57	0.859649	
t_32	6												59	1		59	0	60	60	0.983333	
t_32	7											3	60	4		60	0	67	67	0.895522	
t_32	all		1	6		1	1	3		2	2	2	7	1	282	3	7	320	325	0.867692	
u_23	3				2	1	2	1	1	50	2			1	n42x1	50	5	61	66	0.757576	
u_23	4		1	1	1		1			67				1		67	1	74	75	0.893333	
u_23	5			1	1		2			49	1	1				49	0	57	57	0.859649	
u_23	6			1	2		4			53						53	0	60	60	0.883333	
u_23	7				1					65						65	1	66	67	0.970149	
u_23	all		1	3	9	2	3	6	1	1	284	1	2	1	n42x1	284	7	318	325	0.873846	
v_11	3	1	1	41	3	1		6		1	1	4	1	1	n4x1; n44	41	3	63	66	0.621212	
v_11	4		2	52	3	3		7		1		1	1	2		52	1	74	75	0.693333	
v_11	5			43		1		7	1			1				43	3	54	57	0.754386	
v_11	6			56		2		1		1						56	0	60	60	0.933333	
v_11	7			62	1	1		1							n14x1	62	1	66	67	0.925373	
v_11	all	1	3	254	7	8		22	1	3	1	1	6	1	3	n4x1; n14x1; n44x1	254	8	317	325	0.781538
w_20	3		7			5	46	1			1	2				46	4	62	66	0.69697	
w_20	4		7	1		6	58				2					58	1	74	75	0.773333	
w_20	5	1	5		1	2	47				1					47	0	57	57	0.824561	
w_20	6		3			4	51	1								51	1	59	60	0.85	
w_20	7		7			1	56	1								56	2	65	67	0.835821	
w_20	all	1	29	1	1	18	258	2	1		1	5				258	8	317	325	0.793846	
x_2	3	2	1			31	26				1		1			31	4	62	66	0.469697	
x_2	4	1	4			41	23			3						41	4	71	75	0.546667	
x_2	5	1	2			39	14	1								39	0	57	57	0.684211	
x_2	6					44	15									44	1	59	60	0.733333	
x_2	7		1			56	9									56	1	66	67	0.835821	
x_2	all	4	7	1		211	87	1		2	1		1			211	10	315	325	0.649231	

Item	Grade	A	B	C	D	right answers	right option	missing	attempts	N	double IF	IF - A	IF - B	IF - C	IF - D	
1	3	4	6	42	0	42 C		5	52	57	0	0.74359	-0.230769	-0.179487	0.74359	-0.333333
1	4	2	1	57	2	57 C		0	62	62	0	0.892473	-0.290323	-0.311828	0.892473	-0.290323
1	5	9	1	47	0	47 C		4	57	61	0	0.766082	-0.122807	-0.309942	0.766082	-0.333333
1	6	6	1	50	1	50 C		2	58	60	0	0.816092	-0.195402	-0.310345	0.816092	-0.310345
1	7	4	0	57	1	57 C		2	62	64	0	0.892473	-0.247312	-0.333333	0.892473	-0.311828
1 all		25	9	253	4	253 C		13	291	304	0	0.825888	-0.218786	-0.292096	0.825888	-0.315006
2	3	7	11	5	21	21 D		13	44	57	0	0.30303	-0.121212	0	-0.181818	0.30303
2	4	0	5	1	50	50 D		6	56	62	0	0.857143	-0.333333	-0.214286	-0.309524	0.857143
2	5	2	9	2	46	46 D		2	59	61	0	0.706215	-0.288136	-0.129944	-0.288136	0.706215
2	6	1	7	1	45	45 D		6	54	60	0	0.777778	-0.308642	-0.160494	-0.308642	0.777778
2	7	1	5	0	55	55 D		3	61	64	0	0.868852	-0.311475	-0.224044	-0.333333	0.868852
2 all		11	37	9	217	217 D		30	274	304	0	0.722628	-0.279805	-0.153285	-0.289538	0.722628
3	3	0	49	3	2	49 B		3	54	57	0	0.876543	-0.333333	0.876543	-0.259259	-0.283951
3	4	2	59	1	0	59 B		0	62	62	0	0.935484	-0.290323	0.935484	-0.311828	-0.333333
3	5	1	55	2	1	55 B		2	59	61	0	0.909605	-0.310734	0.909605	-0.288136	-0.310734
3	6	3	50	1	1	50 B		5	55	60	0	0.878788	-0.260606	0.878788	-0.309091	-0.309091
3	7	3	59	0	0	59 B		2	62	64	0	0.935484	-0.268817	0.935484	-0.333333	-0.333333
3 all		9	272	7	4	272 B		12	292	304	0	0.908676	-0.292237	0.908676	-0.30137	-0.315068
4	3	20	31	0	0	31 B		5	52	57	1	0.461538	0.185897	0.467949	-0.326923	-0.326923
4	4	4	53	1	0	53 B		4	58	62	0	0.885057	-0.241379	0.885057	-0.310345	-0.333333
4	5	7	54	0	0	54 B		0	61	61	0	0.846995	-0.180328	0.846995	-0.333333	-0.333333
4	6	2	55	0	0	55 B		3	57	60	0	0.953216	-0.28655	0.953216	-0.333333	-0.333333
4	7	0	64	0	0	64 B		0	64	64	0	1	-0.333333	1	-0.333333	-0.333333
4 all		33	257	1	0	257 B		12	292	304	1	0.840183	-0.181507	0.841324	-0.327626	-0.332192
5	3	37	0	4	2	37 A		13	44	57	1	0.787879	0.795455	-0.325758	-0.204545	-0.265152
5	4	50	0	2	2	50 A		8	54	62	0	0.901235	0.901235	-0.333333	-0.283951	-0.283951
5	5	59	1	0	0	59 A		1	60	61	0	0.977778	0.977778	-0.311111	-0.333333	-0.333333
5	6	57	0	0	0	57 A		3	57	60	0	1	1	-0.333333	-0.333333	-0.333333
5	7	61	2	0	0	61 A		1	63	64	0	0.957672	0.957672	-0.291005	-0.333333	-0.333333
5 all		264	3	6	4	264 A		26	278	304	1	0.932854	0.934053	-0.317746	-0.303357	-0.31295
6	3	1	3	21	4	21 C		28	29	57	0	0.632184	-0.287356	-0.195402	0.632184	-0.149425
6	4	3	4	25	4	25 C		26	36	62	0	0.592593	-0.222222	-0.185185	0.592593	-0.185185
6	5	4	4	26	6	26 C		21	40	61	0	0.533333	-0.2	-0.2	0.533333	-0.133333
6	6	5	2	34	1	34 C		18	42	60	0	0.746032	-0.174603	-0.269841	0.746032	-0.301587
6	7	2	4	33	3	33 C		22	42	64	0	0.714286	-0.269841	-0.206349	0.714286	-0.238095

6 all		15	17	139	18	139 C	115	189	304	0	0.647266	-0.227513	-0.213404	0.647266	-0.206349
7	3	0	41	2	1	41 B	13	44	57	0	0.909091	-0.333333	0.909091	-0.272727	-0.30303
7	4	0	57	3	0	57 B	2	60	62	0	0.933333	-0.333333	0.933333	-0.266667	-0.333333
7	5	0	54	5	1	54 B	1	60	61	0	0.866667	-0.333333	0.866667	-0.222222	-0.311111
7	6	0	55	4	0	55 B	1	59	60	0	0.909605	-0.333333	0.909605	-0.242938	-0.333333
7	7	0	61	2	0	61 B	1	63	64	0	0.957672	-0.333333	0.957672	-0.291005	-0.333333
7 all		0	268	16	2	268 B	18	286	304	0	0.916084	-0.333333	0.916084	-0.258741	-0.324009
8	3	32	1	1	6	32 A	17	40	57	0	0.733333	0.733333	-0.3	-0.3	-0.133333
8	4	49	4	0	4	49 A	5	57	62	0	0.812865	0.812865	-0.239766	-0.333333	-0.239766
8	5	48	1	1	5	48 A	6	55	61	0	0.830303	0.830303	-0.309091	-0.309091	-0.212121
8	6	48	1	0	3	48 A	8	52	60	0	0.897436	0.897436	-0.307692	-0.333333	-0.25641
8	7	53	2	2	3	53 A	4	60	64	0	0.844444	0.844444	-0.288889	-0.288889	-0.266667
8 all		230	9	4	21	230 A	40	264	304	0	0.828283	0.828283	-0.287879	-0.313131	-0.227273
9	3	4	1	2	24	24 D	25	32	57	1	0.666667	-0.15625	-0.28125	-0.239583	0.677083
9	4	5	3	2	29	29 D	23	39	62	0	0.65812	-0.162393	-0.230769	-0.264957	0.65812
9	5	5	3	3	33	33 D	17	44	61	0	0.666667	-0.181818	-0.242424	-0.242424	0.666667
9	6	5	4	1	36	36 D	14	46	60	0	0.710145	-0.188406	-0.217391	-0.304348	0.710145
9	7	2	1	0	51	51 D	10	54	64	0	0.925926	-0.283951	-0.308642	-0.333333	0.925926
9 all		21	12	8	173	173 D	89	215	304	1	0.739535	-0.20155	-0.257364	-0.282171	0.741085
10	3	2	1	0	38	38 D	16	41	57	0	0.902439	-0.268293	-0.300813	-0.333333	0.902439
10	4	2	0	2	53	53 D	5	57	62	0	0.906433	-0.28655	-0.333333	-0.28655	0.906433
10	5	1	0	0	58	58 D	2	59	61	0	0.977401	-0.310734	-0.333333	-0.333333	0.977401
10	6	0	1	0	57	57 D	2	58	60	0	0.977011	-0.333333	-0.310345	-0.333333	0.977011
10	7	0	1	0	63	63 D	0	64	64	0	0.979167	-0.333333	-0.3125	-0.333333	0.979167
10 all		5	3	2	269	269 D	25	279	304	0	0.95221	-0.309438	-0.318996	-0.323775	0.95221
11	3	2	35	0	1	35 B	19	38	57	0	0.894737	-0.263158	0.894737	-0.333333	-0.298246
11	4	2	53	1	1	53 B	5	57	62	0	0.906433	-0.28655	0.906433	-0.309942	-0.309942
11	5	0	59	1	1	59 B	0	61	61	0	0.956284	-0.333333	0.956284	-0.311475	-0.311475
11	6	2	49	1	2	49 B	6	54	60	0	0.876543	-0.283951	0.876543	-0.308642	-0.283951
11	7	1	60	1	1	60 B	1	63	64	0	0.936508	-0.312169	0.936508	-0.312169	-0.312169
11 all		7	256	4	6	256 B	31	273	304	0	0.916972	-0.299145	0.916972	-0.313797	-0.304029
12	3	0	1	0	37	37 D	19	38	57	0	0.964912	-0.333333	-0.298246	-0.333333	0.964912
12	4	0	1	2	56	56 D	3	59	62	0	0.932203	-0.333333	-0.310734	-0.288136	0.932203
12	5	3	1	0	57	57 D	0	61	61	0	0.912568	-0.26776	-0.311475	-0.333333	0.912568
12	6	0	0	0	57	57 D	3	57	60	0	1	-0.333333	-0.333333	-0.333333	1
12	7	1	0	1	62	62 D	0	64	64	0	0.958333	-0.3125	-0.333333	-0.3125	0.958333

12 all		4	3	3	269	269 D	25	279	304	0	0.95221	-0.314217	-0.318996	-0.318996	0.95221
13	3	0	39	1	0	39 B	17	40	57	0	0.966667	-0.333333	0.966667	-0.3	-0.333333
13	4	2	59	1	0	59 B	0	62	62	0	0.935484	-0.290323	0.935484	-0.311828	-0.333333
13	5	0	59	0	0	59 B	2	59	61	0	1	-0.333333	1	-0.333333	-0.333333
13	6	0	58	0	1	58 B	1	59	60	0	0.977401	-0.333333	0.977401	-0.333333	-0.310734
13	7	1	63	0	0	63 B	0	64	64	0	0.979167	-0.3125	0.979167	-0.333333	-0.333333
13 all		3	278	2	1	278 B	20	284	304	0	0.971831	-0.319249	0.971831	-0.323944	-0.328638
14	3	24	1	1	6	24 A	25	32	57	0	0.666667	0.666667	-0.291667	-0.291667	-0.083333
14	4	44	3	1	3	44 A	11	51	62	0	0.816993	0.816993	-0.254902	-0.30719	-0.254902
14	5	54	1	0	1	54 A	5	56	61	0	0.952381	0.952381	-0.309524	-0.333333	-0.309524
14	6	51	2	0	2	51 A	5	55	60	0	0.90303	0.90303	-0.284848	-0.333333	-0.284848
14	7	57	1	1	1	57 A	4	60	64	0	0.933333	0.933333	-0.311111	-0.311111	-0.311111
14 all		230	8	3	13	230 A	50	254	304	0	0.874016	0.874016	-0.291339	-0.317585	-0.265092
15	3	1	1	33	1	33 C	21	36	57	0	0.888889	-0.296296	-0.296296	0.888889	-0.296296
15	4	3	2	50	1	50 C	6	56	62	0	0.857143	-0.261905	-0.285714	0.857143	-0.309524
15	5	0	3	54	1	54 C	3	58	61	0	0.908046	-0.333333	-0.264368	0.908046	-0.310345
15	6	0	0	55	0	55 C	5	55	60	0	1	-0.333333	-0.333333	1	-0.333333
15	7	0	1	60	1	60 C	2	62	64	0	0.956989	-0.333333	-0.311828	0.956989	-0.311828
15 all		4	7	252	4	252 C	37	267	304	0	0.925094	-0.313358	-0.298377	0.925094	-0.313358
16	3	0	1	0	28	28 D	28	29	57	0	0.954023	-0.333333	-0.287356	-0.333333	0.954023
16	4	0	2	0	54	54 D	6	56	62	0	0.952381	-0.333333	-0.285714	-0.333333	0.952381
16	5	1	1	0	58	58 D	1	60	61	0	0.955556	-0.311111	-0.311111	-0.333333	0.955556
16	6	2	1	0	55	55 D	2	58	60	0	0.931034	-0.287356	-0.310345	-0.333333	0.931034
16	7	2	3	0	55	55 D	4	60	64	0	0.888889	-0.288889	-0.266667	-0.333333	0.888889
16 all		5	8	0	250	250 D	41	263	304	0	0.934094	-0.307985	-0.292776	-0.333333	0.934094
17	3	2	25	0	1	25 B	29	28	57	0	0.857143	-0.238095	0.857143	-0.333333	-0.285714
17	4	0	50	1	2	50 B	9	53	62	0	0.924528	-0.333333	0.924528	-0.308176	-0.283019
17	5	1	57	0	0	57 B	3	58	61	0	0.977011	-0.310345	0.977011	-0.333333	-0.333333
17	6	0	55	1	0	55 B	4	56	60	0	0.97619	-0.333333	0.97619	-0.309524	-0.333333
17	7	0	59	1	1	59 B	3	61	64	0	0.956284	-0.333333	0.956284	-0.311475	-0.311475
17 all		3	246	3	4	246 B	48	256	304	0	0.947917	-0.317708	0.947917	-0.317708	-0.3125
18	3	25	1	0	1	25 A	30	27	57	0	0.901235	0.901235	-0.283951	-0.333333	-0.283951
18	4	47	4	0	1	47 A	10	52	62	0	0.871795	0.871795	-0.230769	-0.333333	-0.307692
18	5	52	1	2	1	52 A	5	56	61	0	0.904762	0.904762	-0.309524	-0.285714	-0.309524
18	6	51	0	2	1	51 A	6	54	60	0	0.925926	0.925926	-0.333333	-0.283951	-0.308642
18	7	56	2	2	1	56 A	3	61	64	0	0.89071	0.89071	-0.289617	-0.289617	-0.311475

18 all	231	8	6	5	231 A	54	250	304	0	0.898667	0.898667	-0.290667	-0.301333	-0.306667	
19	3	0	8	10	8 B	37	20	57	0	0.2	-0.333333	0.2	0.333333	-0.2	
19	4	6	25	15	25 B	14	48	62	0	0.361111	-0.166667	0.361111	0.083333	-0.277778	
19	5	2	29	18	0	29 B	12	49	61	0	0.455782	-0.278912	0.455782	0.156463	-0.333333
19	6	1	37	11	1	37 B	10	50	60	0	0.653333	-0.306667	0.653333	-0.04	-0.306667
19	7	3	39	18	1	39 B	3	61	64	0	0.519126	-0.26776	0.519126	0.060109	-0.311475
19 all	12	138	72	6	138 B	76	228	304	0	0.473684	-0.263158	0.473684	0.087719	-0.298246	
20	3	19	0	2	1	19 A	35	22	57	0	0.818182	0.818182	-0.333333	-0.212121	-0.272727
20	4	45	1	2	1	45 A	13	49	62	0	0.891156	0.891156	-0.306122	-0.278912	-0.306122
20	5	50	1	1	1	50 A	8	53	61	0	0.924528	0.924528	-0.308176	-0.308176	-0.308176
20	6	52	0	1	0	52 A	7	53	60	0	0.974843	0.974843	-0.333333	-0.308176	-0.333333
20	7	54	1	0	1	54 A	8	56	64	0	0.952381	0.952381	-0.309524	-0.333333	-0.309524
20 all	220	3	6	4	220 A	71	233	304	0	0.925608	0.925608	-0.316166	-0.298999	-0.310443	
21	3	1	0	22	1	22 C	33	24	57	0	0.888889	-0.277778	-0.333333	0.888889	-0.277778
21	4	11	0	37	1	37 C	13	49	62	0	0.673469	-0.034014	-0.333333	0.673469	-0.306122
21	5	3	0	51	1	51 C	6	55	61	0	0.90303	-0.260606	-0.333333	0.90303	-0.309091
21	6	2	1	51	2	51 C	4	56	60	0	0.880952	-0.285714	-0.309524	0.880952	-0.285714
21	7	2	1	54	2	54 C	5	59	64	0	0.887006	-0.288136	-0.310734	0.887006	-0.288136
21 all	19	2	215	7	215 C	61	243	304	0	0.846365	-0.229081	-0.322359	0.846365	-0.294925	
22	3	1	22	1	0	22 B	33	24	57	0	0.888889	-0.277778	0.888889	-0.277778	-0.333333
22	4	1	50	0	0	50 B	11	51	62	0	0.973856	-0.30719	0.973856	-0.333333	-0.333333
22	5	0	52	0	1	52 B	8	53	61	0	0.974843	-0.333333	0.974843	-0.333333	-0.308176
22	6	1	52	0	0	52 B	7	53	60	0	0.974843	-0.308176	0.974843	-0.333333	-0.333333
22	7	0	60	0	0	60 B	4	60	64	0	1	-0.333333	1	-0.333333	-0.333333
22 all	3	236	1	1	236 B	63	241	304	0	0.972337	-0.316736	0.972337	-0.327801	-0.327801	
23	3	3	2	0	13	13 D	39	18	57	0	0.62963	-0.111111	-0.185185	-0.333333	0.62963
23	4	2	11	0	32	32 D	17	45	62	0	0.614815	-0.274074	-0.007407	-0.333333	0.614815
23	5	3	8	0	35	35 D	15	46	61	0	0.681159	-0.246377	-0.101449	-0.333333	0.681159
23	6	3	4	1	44	44 D	8	52	60	0	0.794872	-0.25641	-0.230769	-0.307692	0.794872
23	7	1	7	0	49	49 D	7	57	64	0	0.812865	-0.309942	-0.169591	-0.333333	0.812865
23 all	12	32	1	173	173 D	86	218	304	0	0.724771	-0.259939	-0.137615	-0.327217	0.724771	
24	3	1	1	1	8	8 D	46	11	57	0	0.636364	-0.212121	-0.212121	-0.212121	0.636364
24	4	5	3	3	19	19 D	32	30	62	0	0.511111	-0.111111	-0.2	-0.2	0.511111
24	5	5	4	0	30	30 D	22	39	61	0	0.692308	-0.162393	-0.196581	-0.333333	0.692308
24	6	1	9	3	28	24 D	19	41	60	0	0.447154	-0.300813	-0.04065	-0.235772	0.577236
24	7	0	2	3	46	46 D	13	51	64	0	0.869281	-0.333333	-0.281046	-0.254902	0.869281

24 all		12	19	10	131	131 D	132	172	304	0	0.682171	-0.24031	-0.186047	-0.255814	0.682171
25	3	0	14	0	0	14 B	43	14	57	0	1	-0.333333	1	-0.333333	-0.333333
25	4	1	29	4	3	29 B	25	37	62	0	0.711712	-0.297297	0.711712	-0.189189	-0.225225
25	5	0	39	3	4	39 B	15	46	61	0	0.797101	-0.333333	0.797101	-0.246377	-0.217391
25	6	1	40	0	2	40 B	17	43	60	0	0.906977	-0.302326	0.906977	-0.333333	-0.271318
25	7	2	38	1	6	38 B	17	47	64	0	0.744681	-0.276596	0.744681	-0.304965	-0.163121
25 all		4	160	8	15	160 B	117	187	304	0	0.807487	-0.304813	0.807487	-0.276292	-0.226381
26	3	3	0	1	13	13 D	40	17	57	0	0.686275	-0.098039	-0.333333	-0.254902	0.686275
26	4	5	1	1	35	35 D	20	42	62	0	0.777778	-0.174603	-0.301587	-0.301587	0.777778
26	5	4	2	0	42	42 D	13	48	61	0	0.833333	-0.222222	-0.277778	-0.333333	0.833333
26	6	3	1	0	43	43 D	13	47	60	0	0.886525	-0.248227	-0.304965	-0.333333	0.886525
26	7	2	1	0	56	56 D	5	59	64	0	0.932203	-0.288136	-0.310734	-0.333333	0.932203
26 all		17	5	2	189	189 D	91	213	304	0	0.849765	-0.226917	-0.302034	-0.320814	0.849765
27	3	13	0	0	1	13 A	43	14	57	0	0.904762	0.904762	-0.333333	-0.333333	-0.238095
27	4	38	1	1	1	38 A	21	41	62	0	0.902439	0.902439	-0.300813	-0.300813	-0.300813
27	5	44	3	0	1	44 A	13	48	61	0	0.888889	0.888889	-0.25	-0.333333	-0.305556
27	6	45	0	0	2	45 A	13	47	60	0	0.943262	0.943262	-0.333333	-0.333333	-0.276596
27	7	55	0	0	0	55 A	9	55	64	0	1	1	-0.333333	-0.333333	-0.333333
27 all		195	4	1	5	195 A	99	205	304	0	0.934959	0.934959	-0.307317	-0.326829	-0.300813
28	3	1	0	15	0	15 C	41	16	57	0	0.916667	-0.25	-0.333333	0.916667	-0.333333
28	4	1	0	44	0	44 C	17	45	62	0	0.97037	-0.303704	-0.333333	0.97037	-0.333333
28	5	1	0	46	0	46 C	14	47	61	0	0.971631	-0.304965	-0.333333	0.971631	-0.333333
28	6	1	1	46	0	46 C	12	48	60	0	0.944444	-0.305556	-0.305556	0.944444	-0.333333
28	7	2	0	55	0	55 C	7	57	64	0	0.953216	-0.28655	-0.333333	0.953216	-0.333333
28 all		6	1	206	0	206 C	91	213	304	0	0.956182	-0.295775	-0.327074	0.956182	-0.333333
29	3	0	0	3	13	13 D	41	16	57	0	0.75	-0.333333	-0.333333	-0.083333	0.75
29	4	2	2	3	36	36 D	19	43	62	0	0.782946	-0.271318	-0.271318	-0.24031	0.782946
29	5	0	3	7	36	36 D	15	46	61	0	0.710145	-0.333333	-0.246377	-0.130435	0.710145
29	6	1	0	8	38	38 D	13	47	60	0	0.744681	-0.304965	-0.333333	-0.106383	0.744681
29	7	1	3	8	43	43 D	9	55	64	0	0.709091	-0.309091	-0.260606	-0.139394	0.709091
29 all		4	8	29	166	166 D	97	207	304	0	0.73591	-0.307568	-0.281804	-0.146538	0.73591
30	3	2	1	2	2	2 C	50	7	57	0	0.047619	0.047619	-0.142857	0.047619	0.047619
30	4	6	2	15	1	15 C	38	24	62	0	0.5	0	-0.222222	0.5	-0.277778
30	5	7	1	20	3	20 C	30	31	61	0	0.526882	-0.032258	-0.290323	0.526882	-0.204301
30	6	6	2	23	0	23 C	29	31	60	0	0.655914	-0.075269	-0.247312	0.655914	-0.333333
30	7	1	0	41	3	41 C	19	45	64	0	0.881481	-0.303704	-0.333333	0.881481	-0.244444

30 all	22	6	101	9	101 C	166	138	304	0	0.642512	-0.120773	-0.275362	0.642512	-0.246377	
31	3	10	0	0	1	10 A	46	11	57	0	0.878788	0.878788	-0.333333	-0.333333	-0.212121
31	4	39	0	1	1	39 A	21	41	62	0	0.934959	0.934959	-0.333333	-0.300813	-0.300813
31	5	39	6	0	0	39 A	16	45	61	0	0.822222	0.822222	-0.155556	-0.333333	-0.333333
31	6	41	0	1	0	41 A	18	42	60	0	0.968254	0.968254	-0.333333	-0.301587	-0.333333
31	7	50	3	0	0	50 A	11	53	64	0	0.924528	0.924528	-0.257862	-0.333333	-0.333333
31 all	179	9	2	2	179 A	112	192	304	0	0.909722	0.909722	-0.270833	-0.319444	-0.319444	

Appendix K – Tables related to item analysis of the MLAT-EC

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Table K.1. Index of discrimination of items on MLAT-EC Part 1 Paraules ocultes

Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i	Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i
1	95	71	0.24	16	99	59	0.39
2	95	43	0.51	17	98	51	0.46
3	97	83	0.14	18	96	47	0.48
4	100	67	0.33	19	77	14	0.62
5	99	71	0.28	20	100	29	0.70
6	72	29	0.42	21	100	27	0.72
7	98	73	0.24	22	101	37	0.63
8	96	59	0.37	23	93	14	0.78
9	83	40	0.42	24	81	6	0.74
10	101	68	0.33	25	93	12	0.80
11	100	61	0.38	26	99	12	0.86
12	101	66	0.35	27	99	15	0.83
13	100	76	0.24	28	101	19	0.81
14	97	48	0.48	29	90	11	0.78
15	101	63	0.38	30	77	3	0.73
				31	96	12	0.83

Table K.2. Cronbach's reliability analysis of MLAT-EC Part 1 Paraules ocultes

Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted
1	.243	.932	11	.511	.929	21	.699	.927
2	.527	.929	12	.553	.929	22	.734	.926
3	.181	.932	13	.525	.929	23	.630	.927
4	.417	.930	14	.519	.929	24	.746	.929
5	.421	.930	15	.517	.929	25	.617	.928
6	.298	.932	16	.541	.929	26	.713	.926
7	.394	.930	17	.630	.928	27	.721	.926
8	.335	.931	18	.574	.928	28	.746	.926
9	.310	.932	19	.474	.930	29	.617	.928
10	.550	.929	20	.698	.927	30	.527	.929
						31	.682	.927

Table K.3. Sentences on MLAT-EC Part 2 Paraules que es corresponen aiming at subject function

Item	Function aimed at: Subject	
5	Stem	Un NOI molt petit tocà el timbre de la casa.
	Target	El <u>gat</u> s'amagà a sota del llit.
8	Stem	L'any passat el meu PARE em portà al circ.
	Target	Els <u>homes</u> vivien en cavernes fa milers d'anys.
10	Stem	Els TIGRES només mengen carn.
	Target	Una <u>pluja</u> suau és bona per a les plantes.
15	Stem	Digue'm una cosa, encara està malalta la teva GERMANA?
	Target	Les <u>formigues</u> treballen molt transportant menjar.
22	Stem	Què et va semblar el nou COMPANY?
	Target	La meva <u>tia</u> sortí i no apagà el televisor.
23	Stem	La LAURA li tragué el barret a en Joan.
	Target	Al començament de l'hivern, els <u>ocells</u> comencen a volar cap al sud.
24	Stem	L'ENRIC posà una campaneta a la porta d'entrada de casa seva.
	Target	A quina hora creus <u>tu</u> que arribaràs a sopar?
31	Stem	En MARC balla salsa amb la Maria.
	Target	Els <u>nens</u> desordenats deixen els llibres per terra.

Table K.4. Sentences on MLAT-EC Part 2 Paraules que es corresponen aiming at verb

Item	Function aimed at: Verb	
3	Stem	L'Olga CAMINÀ tres-cents metres ahir.
	Target	Al meu cosí Francesc li <u>regalaran</u> un cotxe nou.
7	Stem	En Pere POSA el despertador cada nit.
	Target	A l'estiu <u>bufen</u> vents calents.
9	Stem	Dilluns passat li COMPRAREN un regal a en Joan.
	Target	El cap de setmana vinent, la Maria i en Josep <u>jugaran</u> a futbol.
12	Stem	En Carles JUGAVA amb trenets al pati de la seva àvia.
	Target	En Pere i el seu germà <u>treballen</u> a una botiga de roba.
17	Stem	Quan plou, sempre PORTO botes de goma.
	Target	La mare li <u>cantà</u> una cançó de bressol al seu bebè.
20	Stem	Cada matí el meu avi es BEU una tassa de cafè amb llet.
	Target	En Tomàs lie <u>tirà</u> la pilota a en Manel.
28	Stem	La Maria REBÉ moltes targetes aquest Nadal.
	Target	Els meus pares i jo <u>sortim</u> de càmping cada estiu.

Table K.5. Sentences on MLAT-EC Part 2 Paraules que es corresponen aiming at object function

Item	Function aimed at: Object	
1	Stem	La meva mare va encendre el LLUM.
	Target	La Maria toca la <u>guitarra</u> cada matí.
6	Stem	Em vaig tallar el DIT amb un ganivet.
	Target	El meu germà s'oblidà les <u>claus</u> a casa.
11	Stem	Per llençar BROSSA, van castigar en Joan.
	Target	La Susanna va recollir la seva <u>nina</u> de terra.
14	Stem	Dóna-li AIGUA al teu gos quan tingui set.
	Target	Les llanxes utilitzen una <u>benzina</u> especial per funcionar.
18	Stem	En Carles va aprovar l'EXAMEN, però en Joan no.
	Target	Per favor, no deixis el <u>plat</u> a sobre de la cadira.
19	Stem	En Pere és un pallasso i per això es pinta la CARA.
	Target	Els elefants mouen les <u>orelles</u> quan fa vent.
25	Stem	Qui et va regalar els GUANTS nous?
	Target	Vam trobar la <u>caixa</u> a sota d'una taula que està a l'àtic.
26	Stem	Vaig intentar d'atrapar el GRIPAU, pero no vaig poder.
	Target	No enviïs el <u>fax</u> fins que t'ho diguin.

Table K.6. Sentences on MLAT-EC Part 2 Paraules que es corresponen aiming at adjective function

Item	Function aimed at: Adjective	
2	Stem	El gos PETIT va trencar el gerro de vidre.
	Target	La casa <u>vermella</u> té les finestres obertes.
4	Stem	La GRAN mansió del president és blanca.
	Target	A la classe de matemàtiques hi ha alumnes intel·ligents.
13	Stem	Les girafes tenen un coll LLARGUÍSSIM.
	Target	En Jordi menja en una taula <u>grosa</u> del parc.
16	Stem	A mi m'agrada el vent FRESC del camp.
	Target	En Josep està llegint una novel·la molt <u>entretinguda</u> .
21	Stem	La mestra sempre té un somriure AMABLE per a tothom.
	Target	T'agrada dormir amb un coixí <u>tou</u> ?
27	Stem	El vestit BONIC de la Paula està fet malbé.
	Target	L'amic d'en Joan porta posada una camisa ESCOCESA.
29	Stem	No vam voler banyar-nos al mar perquè hi feia unes onades ENORMES.
	Target	L'ocell entrà per una finestra <u>oberta</u> .
30	Stem	Les cuques de llum són FOSFORESCENTS, és a dir, brillen en la foscor.
	Target	Ahir, en Robert i en Jaume van viatjar en un tren molt <u>ple</u> .

Table K.7. IF distribution across grades on the MLAT-EC *Part 2 Paraules que es corresponen* according to the target function in the sentence

Function	Gr.	N	Very easy > 0.74	Easy 0.55 - 0.74	Mid-difficult 0.45 - 0.54	Difficult 0.25 – 0.44	Very difficult <0.25
Subject	3	57				12.9% 5, 8, 15, 23	12.9% 10, 22, 24, 31
	4	62		12.9% 5, 8, 10, 23		9.7% 15, 22, 31	3.2% 24
	5	61	3.2% 5	12.9% 8, 10, 15, 23	3.2% 31	6.5% 22, 24	
	6	60	3.2% 5	12.9% 8, 10, 15, 23	6.5% 24, 31		3.2% 22
	7	64	6.5% 5, 8	12.9% 10, 15, 23, 31	6.5% 22, 24		
	3-7	304		9.7% 5, 8, 23	6.5% 10, 15	9.7% 22, 24, 31	
Verb	3	57			6.5% 12, 28	12.9% 3, 7, 9, 20	3.2% 17
	4	62		6.5% 12, 20	6.5% 7, 9	9.7% 3, 17, 28	
	5	61	3.2% 12	16.1% 3, 7, 9, 20, 28	3.2% 17		
	6	60	9.7% 9, 12, 20	9.7% 3, 7, 28	3.2% 17		
	7	64	22.6% 3, 7, 9, 12, 17, 20, 28				
	3-7	304		19.3% 3, 7, 9, 12, 20, 28	3.2% 17		
Object	3	57		3.2% 1	3.2% 25	19.3% 6, 11, 14, 18, 19, 26	3.2% 25
	4	62	3.2% 1	16.1% 6, 11, 14, 19, 26	6.5% 18, 25		
	5	61	9.7% 1, 14, 26	12.9% 6, 18, 19, 25	3.2% 11		3.2% 11
	6	60	9.7% 1, 14, 26	12.9% 6, 18, 19, 25	3.2% 11		
	7	64	12.9% 1, 18, 19, 26	12.9% 6, 11, 14, 25			
	3-7	304	3.2% 1	19.3% 6, 14, 18, 19, 25, 26	3.2% 11		
Adjective	3	57				16.1% 2, 4, 13, 29, 30	9.7% 16, 21, 27
	4	62		6.5% 2, 4	9.7% 13, 27, 29	3.2% 30	6.5% 16, 21
	5	61	6.5% 2, 13	16.1% 4, 21, 27, 29, 30	3.2% 16		
	6	60	3.2% 2	9.7% 13, 27, 29	3.2% 30	9.7% 4, 16, 21	
	7	64	9.7% 2, 13, 29	9.7% 21, 27, 30	6.5% 4, 16		
	3-7	304		9.7% 2, 13, 29	9.7% 4, 27, 30	6.5% 16, 21	

Table K.8. Order of appearance of target items on the MLAT-EC *Part 2 Paraules que es corresponen*

Functions	Canonical word order	Order of sentence elements changed in the stem	Order of sentence elements changed in the target sentence
Subject	5, 8, 10, 31	15, 22	23, 24
Verb	9, 12, 20, 28	17	3, 7
Object	1, 6, 14, 18, 19, 25, 26	11	
Adjective	2, 13, 16, 21, 27, 29, 30	4	

Table K.9. Index of discrimination of items on MLAT-EC *Part 2 Paraules que es corresponen*

Item	Correct answers	Correct answers	D_i	Item	Correct answers	Correct answers	D_i
	Upper 33%	Lower 33%			Upper 33%	Lower 33%	
1	97	75	0.22	16	78	21	0.56
2	96	44	0.51	17	91	22	0.68
3	98	19	0.78	18	95	29	0.65
4	65	46	0.19	19	92	43	0.48
5	99	38	0.6	20	99	32	0.66
6	82	48	0.34	21	78	19	0.58
7	97	31	0.65	22	64	8	0.55
8	98	25	0.72	23	91	29	0.61
9	97	33	0.63	24	74	3	0.7
10	81	29	0.51	25	85	34	0.5
11	80	43	0.37	26	97	35	0.61
12	100	31	0.68	27	90	14	0.75
13	93	30	0.62	28	99	18	0.8
14	95	42	0.52	29	97	9	0.87
15	90	24	0.65	30	91	9	0.81
				31	83	10	0.72

Table K.10. Cronbach's reliability analysis of MLAT-EC Part 2 Paraules que es corresponen

Corrected Cronbach's			Corrected Cronbach's			Corrected Cronbach's		
Items	item-total	Alpha	Items	item-total	Alpha	Items	item-total	Alpha
	correlation	if deleted		correlation	if deleted		correlation	if deleted
1	.220	.921	11	.250	.922	21	.484	.918
2	.462	.919	12	.610	.917	22	.458	.919
3	.632	.916	13	.532	.918	23	.518	.918
4	.129	.923	14	.418	.919	24	.617	.917
5	.572	.917	15	.541	.918	25	.392	.920
6	.259	.921	16	.448	.919	26	.521	.918
7	.563	.917	17	.534	.918	27	.627	.916
8	.621	.917	18	.521	.918	28	.681	.916
9	.553	.917	19	.419	.919	29	.717	.915
10	.388	.920	20	.569	.917	30	.663	.916
						31	.589	.917

Table K.11. Index of discrimination of items on MLAT-EC Part 3 Paraules que rimen

Item	Correct	Correct	D _i	Item	Correct	Correct	D _i
	answers	answers			answers	answers	
	Upper 33%	Lower 33%			Upper 33%	Lower 33%	
1	99	73	0.26	24	98	65	0.33
2	101	82	0.19	25	100	63	0.37
3	100	76	0.24	26	99	34	0.64
4	75	45	0.30	27	101	66	0.35
5	96	66	0.30	28	38	18	0.20
6	92	52	0.39	29	69	19	0.49
7	100	81	0.19	30	101	29	0.71
8	101	76	0.25	31	101	38	0.62
9	86	33	0.52	32	98	34	0.63
10	100	65	0.35	33	93	23	0.69
11	101	73	0.28	34	97	13	0.83
12	72	34	0.38	35	100	30	0.69
13	86	73	0.13	36	101	25	0.75
14	101	74	0.27	37	99	15	0.83
15	100	87	0.13	38	85	12	0.72
16	64	57	0.07	39	100	15	0.84
17	100	75	0.25	40	101	17	0.83
18	83	68	0.15	41	96	9	0.86
19	95	73	0.22	42	100	12	0.87
20	101	69	0.32	43	98	9	0.88
21	100	70	0.30	44	72	11	0.60
22	72	30	0.41	45	80	12	0.67
23	97	28	0.68	46	94	8	0.85

Table K.12. Cronbach's reliability analysis of MLAT-EC Part 3 Paraules que rimen

Corrected Cronbach's			Corrected Cronbach's			Corrected Cronbach's		
Items	item-total correlation	Alpha if deleted	Items	item-total correlation	Alpha if deleted	Items	item-total correlation	Alpha if deleted
1	.419	.937	17	.418	.937	33	.609	.936
2	.407	.938	18	.118	.940	34	.703	.935
3	.418	.937	19	.433	.937	35	.708	.935
4	.222	.939	20	.516	.937	36	.749	.935
5	.396	.938	21	.488	.937	37	.724	.935
6	.337	.938	22	.244	.939	38	.561	.936
7	.374	.938	23	.608	.936	39	.744	.935
8	.411	.938	24	.453	.937	40	.750	.935
9	.390	.938	25	.515	.937	41	.667	.935
10	.373	.938	26	.644	.936	42	.722	.935
11	.329	.938	27	.608	.936	43	.739	.935
12	.258	.939	28	.150	.939	44	.498	.937
13	.225	.939	29	.373	.938	45	.501	.937
14	.456	.937	30	.734	.935	46	.657	.936
15	.260	.938	31	.686	.936			
16	.024	.941	32	.689	.935			

Table K.13. Percentages of wrong number combinations sharing the same unit on MLAT-EC Part 4 Aprenguem números

Number written	Target number	Test takers percentage	
		1 st time	2 nd time
10	20	2.6	4.9
20	10	2.6	4.9
11	21	2.3	5.5
12	22	2.6	3.6
22	12	2.6	4
13	23	2.3	3.6
23	13	4.3	2.6

Table K.14. Percentages of wrong answers on MLAT-EC Part 4 Aprenguem números regarding units and corresponding tens

Number written	Target number	Test takers percentage	
		1 st time	2 nd time
1	10	0.7	-
10	1	0.9	-
2	20	3.6	3.3
20	2	20.7	21.4
3	30	4.6	-
30	3	11.8	-

Table K.15. Answers to items w and x on MLAT-EC Part 4 Aprenguem números

Grade	Item w and x =20	Item w and x =2	Item w =2 and item x =20	Item w =20 and item x=2
3	15	2	-	15
4	9	1	2	41
5	8	-	-	45
6	7	-	4	39
7	5	-	1	48
Total	44	3	7	188

Table K.16. Index of discrimination of items on MLAT-EC Part 4 Aprenguem números

Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i	Item	Correct answers Upper 33%	Correct answers Lower 33%	D_i
a. 23	101	53	0.47	n. 10	101	61	0.39
b. 2	101	43	0.57	o. 13	101	48	0.52
c. 11	101	55	0.45	p. 33	101	62	0.38
d. 33	101	59	0.41	q. 21	101	63	0.38
e. 21	101	61	0.39	r. 12	100	53	0.46
f. 3	101	52	0.48	s. 22	101	48	0.52
g. 12	101	49	0.51	t. 13	101	48	0.52
h. 30	101	64	0.37	u. 32	101	54	0.46
i. 22	101	49	0.51	v. 23	101	53	0.47
j. 1	101	76	0.25	w. 11	101	48	0.52
k. 31	101	63	0.38	x. 20	101	64	0.37
l. 20	101	71	0.30	y. 2	100	32	0.67
m. 32	101	66	0.35				

Table K.17. Cronbach's reliability analysis of MLAT-EC Part 4 Aprenguem números

Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted	Items	Corrected item-total correlation	Cronbach's Alpha if deleted
a. 23	.593	.932	j. 1	.475	.933	s. 22	.650	.931
b. 2	.413	.935	k. 31	.652	.931	t. 13	.660	.931
c. 11	.555	.932	l. 20	.449	.934	u. 32	.682	.931
d. 33	.634	.931	m. 32	.681	.931	v. 23	.613	.932
e. 21	.603	.932	n. 10	.606	.932	w. 11	.622	.931
f. 3	.558	.932	o. 13	.703	.930	x. 20	.466	.934
g. 12	.589	.932	p. 33	.657	.931	y. 2	.495	.934
h. 30	.522	.933	q. 21	.573	.932			
i. 22	.611	.932	r. 12	.597	.932			

Table K.18. Shapiro-Wilk normality test of the MLAT-EC

Test parts		MLAT-EC 1		MLAT-EC 2		MLAT-EC 3		MLAT-EC 4		MLAT-EC Total raw score	
Grade	N	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.	Stats.	Sig.
3	57	.950	.020	.930	.003	.937	.005	.917	.001	.968	.134
4	62	.957	.030	.918	.001	.902	.000	.786	.000	.971	.145
5	61	.918	.001	.910	.000	.895	.000	.674	.000	.943	.007
6	60	.889	.000	.927	.002	.863	.000	.798	.000	.945	.010
7	64	.837	.000	.857	.000	.855	.000	.501	.000	.869	.000
All	304	.904	.000	.932	.000	.898	.000	.757	.000	.938	.000

Item	Gra A	B	C	D	E	F	G	H	I	right	riht	mis	atten	N	dou	IF	IF - A	IF - B	IF - C	IF - D	IF - E	IF - F	IF - G	IF - H	IF - I	
1	3	0	8	0	43	0	4	2		43	D	0	57	57	0	0.71345	-0.040936	0.099415	-0.040936	0.71345	-0.040936	0.02924	-0.005848			
1	4	1	2	0	55	0	2	1		55	D	0	62	62	0	0.86828	-0.002688	0.013441	-0.018817	0.86828	-0.018817	0.013441	-0.002688			
1	5	1	4	0	48	0	1	6		48	D	1	60	61	0	0.766667	-0.016667	0.033333	-0.033333	0.766667	-0.033333	-0.016667	0.066667			
1	6	0	3	0	56	0	0	1		56	D	0	60	60	0	0.922222	-0.011111	0.038889	-0.011111	0.922222	-0.011111	-0.011111	0.005556			
1	7	1	2	0	53	0	3	4		53	D	1	63	64	0	0.814815	-0.010582	0.005291	-0.026455	0.814815	-0.026455	0.021164	0.037037			
1	all	3	19	0	255	0	14	1		255	D	2	302	304	0	0.818433	-0.016004	0.036976	-0.025938	0.818433	-0.025938	0.020419	-0.022627			
2	3	0	2	29	2	0	11	13		29	C	0	57	57	0	0.426901	-0.081871	-0.046784	0.426901	-0.046784	-0.081871	0.111111	0.146199			
2	4	0	2	42	0	0	8	10		42	C	0	62	62	0	0.623656	-0.053763	-0.021505	0.623656	-0.053763	-0.053763	0.075269	0.107527			
2	5	0	3	48	0	0	3	7		48	C	0	61	61	0	0.751366	-0.035519	0.013661	0.751366	-0.035519	-0.035519	0.013661	0.079235			
2	6	0	4	48	0	0	6	2		48	C	0	60	60	0	0.766667	-0.033333	0.033333	0.766667	-0.033333	-0.033333	0.066667	0			
2	7	0	2	55	0	0	6	1		55	C	0	64	64	0	0.835938	-0.023438	0.007813	0.835938	-0.023438	-0.023438	0.070313	-0.007813			
2	all	0	13	222	2	0	34	33		222	C	0	304	304	0	0.685307	-0.044956	-0.002193	0.685307	-0.038377	-0.044956	0.066886	0.063596			
3	3	0	2	1	6	0	22	0	16	9	22	F	1	56	57	0	0.316964	-0.075893	-0.040179	-0.058036	0.03125	-0.075893	0.316964	-0.075893	0.209821	0.084821
3	4	0	1	2	1	0	26	0	26	6	26	F	0	62	62	0	0.346774	-0.072581	-0.056452	-0.040323	-0.056452	-0.072581	0.346774	-0.072581	0.346774	0.024194
3	5	0	1	0	4	0	41	0	14	1	41	F	0	61	61	0	0.631148	-0.040984	-0.02459	-0.040984	0.02459	-0.040984	0.631148	-0.040984	0.188525	-0.02459
3	6	0	0	4	1	0	43	0	8	3	43	F	1	59	60	0	0.694915	-0.033898	-0.033898	0.033898	-0.016949	-0.033898	0.694915	-0.033898	0.101695	0.016949
3	7	0	1	2	3	0	52	0	5	1	52	F	0	64	64	0	0.789063	-0.023438	-0.007813	0.007813	0.023438	-0.023438	0.789063	-0.023438	0.054688	-0.007813
3	all	0	5	9	15	0	184	0	69	20	184	F	2	302	304	0	0.56043	-0.048841	-0.032285	-0.01904	0.000828	-0.048841	0.56043	-0.048841	0.179636	0.017384
4	3	1	0	13	0	7	2	8	23		23	H	3	54	57	0	0.343915	-0.063492	-0.082011	0.15873	-0.082011	0.047619	-0.044974	0.066138	0.343915	
4	4	0	1	3	1	15	0	3	36		36	H	3	59	62	0	0.554479	-0.05569	-0.038741	-0.004843	-0.038741	0.198547	-0.05569	-0.004843	0.554479	
4	5	0	0	6	1	9	0	3	41		41	H	1	60	61	0	0.638095	-0.045238	-0.045238	0.054762	-0.028571	0.104762	-0.045238	0.004762	0.638095	
4	6	0	0	9	0	16	2	4	27		27	H	2	58	60	0	0.389163	-0.076355	-0.076355	0.078818	-0.076355	0.199507	-0.041872	-0.007389	0.389163	
4	7	0	1	15	0	7	0	5	33		33	H	3	61	64	0	0.47541	-0.065574	-0.04918	0.180328	-0.065574	0.04918	-0.065574	0.016393	0.47541	
4	all	1	2	46	2	54	4	23	160		160	H	12	292	304	0	0.483366	-0.061155	-0.05773	0.092955	-0.05773	0.120352	-0.050881	0.014188	0.483366	
5	3	0	28	12	0	1	0	4	11		28	B	1	56	57	0	0.428571	-0.071429	0.428571	0.142857	-0.071429	-0.053571	-0.071429	0	0.125	
5	4	0	42	13	0	0	0	2	5		42	B	0	62	62	0	0.631336	-0.046083	0.631336	0.163594	-0.046083	-0.046083	-0.046083	-0.013825	0.034562	
5	5	0	48	5	0	1	0	1	6		48	B	0	61	61	0	0.75644	-0.030445	0.75644	0.051522	-0.030445	-0.014052	-0.030445	-0.014052	0.067916	
5	6	0	49	7	0	0	0	2	1		49	B	1	59	60	0	0.806295	-0.024213	0.806295	0.094431	-0.024213	-0.024213	-0.024213	0.009685	-0.007264	
5	7	0	57	1	0	2	0	1	3		57	B	0	64	64	0	0.875	-0.015625	0.875	0	-0.015625	0.015625	-0.015625	0	0.03125	
5	all	0	224	38	0	4	0	10	26		224	B	2	302	304	0	0.704825	-0.036897	0.704825	0.088931	-0.036897	-0.023652	-0.036897	-0.003784	0.049196	
6	3	1	2	13	7	28	0	1	4		28	E	1	56	57	0	0.428571	-0.053571	-0.035714	0.160714	0.053571	0.428571	-0.071429	-0.053571	0	
6	4	1	5	8	5	39	0	0	3		39	E	1	61	62	0	0.587822	-0.035129	0.030445	0.079625	0.030445	0.587822	-0.051522	-0.051522	-0.002342	
6	5	0	7	8	1	42	0	0	3		42	E	0	61	61	0	0.644028	-0.044496	0.070258	0.086651	-0.028103	0.644028	-0.044496	-0.044496	0.004684	
6	6	0	7	4	3	42	1	0	1		42	E	2	58	60	0	0.684729	-0.039409	0.081281	0.029557	0.012315	0.684729	-0.022167	-0.039409	-0.022167	
6	7	0	12	3	3	44	0	0	0		44	E	2	62	64	0	0.668203	-0.041475	0.152074	0.006912	0.006912	0.668203	-0.041475	-0.041475	-0.041475	
6	all	2	33	36	19	195	1	1	11		195	E	6	298	304	0	0.604986	-0.042665	0.061361	0.071429	0.014382	0.604986	-0.046021	-0.046021	-0.012464	
7	3	1	1	6	26	17	4				26	D	2	55	57	0	0.367273	-0.087273	-0.087273	0.003636	0.367273	0.203636	-0.032727			
7	4	0	0	3	34	14	7				34	D	4	58	62	0	0.503448	-0.082759	-0.082759	-0.031034	0.503448	0.158621	0.037931			
7	5	0	0	3	42	11	5				42	D	0	61	61	0	0.62623	-0.062295	-0.062295	-0.013115	0.62623	0.118033	0.019672			
7	6	0	0	2	41	13	4				41	D	0	60	60	0	0.62	-0.063333	-0.063333	-0.03	0.62	0.153333	0.003333			
7	7	1	0	3	56	1	2				56	D	1	63	64	0	0.866667	-0.006349	-0.022222	0.025397	0.866667	-0.006349	0.009524			
7	all	2	1	17	199	56	22				199	D	7	297	304	0	0.60404	-0.059259	-0.062626	-0.008754	0.60404	0.122559	0.008081			
8	3	0	21	3	1	21	0	3	0	5	21	B	3	54	57	0	0.3125	-0.076389	0.3125	-0.020833	-0.05787	0.3125	-0.076389	-0.020833	-0.076389	0.016204
8	4	0	38	2	0	16	0	2	1	1	38	B	2	60	62	0	0.5875	-0.045833	0.5875	-0.0125	-0.045833	0.220833	-0.045833	-0.0125	-0.029167	-0.029167
8	5	0	47	1	1	10	0	2	0	0	47	B	0	61	61	0	0.741803	-0.028689	0.741803	-0.012295	-0.012295	0.135246	-0.028689	0.004098	-0.028689	-0.028689
8	6	0	44	3	0	11	0	0	0	1	44	B	1	59	60	0	0.713983	-0.03178	0.713983	0.019068	-0.03178	0.154661	-0.03178	-0.03178	-0.03178	-0.014831
8	7	0	53	0	0	11	0	0	0	0	53	B	0	64	64	0	0.806641	-0.021484	0.806641	-0.021484	-0.021484	0.150391	-0.021484	-0.021484	-0.021484	-0.021484
8	all	0	203	9	2	69	0	7	1	7	203	B	6	298	304	0	0.641359	-0.039849	0.641359	-0.009648	-0.033138	0.191695	-0.039849	-0.016359	-0.036493	-0.016359
9	3	0	0	6	5	3	0	2	26	11	26	H	3	54	57	1	0.416667	-0.064815	-0.064815	0.046296	0.027778	-0.009259	-0.064815	-0.027778	0.416667	0.138889
9	4	0	1	5	2	4	0	0	36	13	36	H	1	61	62	0	0.538934	-0.05123	-0.034836	0.030738	-0.018443	0.014344	-0.05123	-0.05123	0.538934	0.161885
9	5	0	0	1	6	2	0	1	41	10	41	H	0	61	61	0	0.631148	-0.040984	-0.040984	-0.02459	0.057377	-0.008197	-0.040984	-0.02459	0.631148	0.122951
9	6	0	0	2	2	2	0	0	49	5	49	H	0	60	60	0	0.79375	-0.022917	-0.022917	0.010417	0.010417	0.010417	-0.022917	-0.022917	0.79375	0.060417
9	7	0	0	4	5	0	0	0	54	1	54	H	0	64	64	0	0.824219	-0.019531	-0.019531	0.042969	0.058594	-0.019531	-0.019531	-0.019531	0.824219	-0.003906
9	all	0	1	18	20	11	0	3	206	40	206	H	4	300	304	1	0.6475	-0.039167	-0.035833	0.020833	0.0275	-0.0025	-0.039167	-0.029167	0.6475	0.094167

10	3	0	16	6	1	8	0	1	22	16	B	3	54	57	0	0.195767	-0.100529	0.195767	0.010582	-0.082011	0.047619	-0.100529	-0.082011	0.306878		
10	4	0	41	2	0	1	0	0	18	41	B	0	62	62	0	0.612903	-0.048387	0.612903	-0.016129	-0.048387	-0.032258	-0.048387	-0.048387	0.241935		
10	5	0	41	0	0	2	0	0	18	41	B	0	61	61	0	0.625293	-0.046838	0.625293	-0.046838	-0.046838	-0.014052	-0.046838	-0.046838	0.248244		
10	6	0	39	4	0	2	0	0	15	39	B	0	60	60	0	0.6	-0.05	0.6	0.016667	-0.05	-0.016667	-0.05	-0.05	0.2		
10	7	0	44	4	0	3	0	0	13	44	B	0	64	64	0	0.642857	-0.044643	0.642857	0.017857	-0.044643	0.002232	-0.044643	-0.044643	0.158482		
10	all	0	181	16	1	16	0	1	86	181	B	3	301	304	0	0.544376	-0.056953	0.544376	-0.003797	-0.053631	-0.003797	-0.056953	-0.053631	0.228761		
11	3	6	14	1	22	4	8			22	D	2	55	57	0	0.28	-0.010909	0.134545	-0.101818	0.28	-0.047273	0.025455				
11	4	4	11	1	38	2	4			38	D	2	60	62	0	0.56	-0.006667	0.11	-0.056667	0.56	-0.04	-0.006667				
11	5	4	11	0	37	0	8			37	D	1	60	61	0	0.54	-0.01	0.106667	-0.076667	0.54	-0.076667	0.056667				
11	6	1	12	3	36	3	5			36	D	0	60	60	0	0.52	-0.063333	0.12	-0.03	0.52	-0.03	0.003333				
11	7	11	6	1	40	2	4			40	D	0	64	64	0	0.55	0.096875	0.01875	-0.059375	0.55	-0.04375	-0.0125				
11	all	26	54	6	173	11	29			173	D	5	299	304	0	0.494314	0.002676	0.096321	-0.064214	0.494314	-0.047492	0.012709				
12	3	3	0	3	30	0	0	10	0	8	30	D	3	54	57	0	0.5	0	-0.055556	0	0.5	-0.055556	-0.055556	0.12963	-0.055556	0.092593
12	4	1	0	5	40	0	0	12	0	3	40	D	1	61	62	0	0.612705	-0.026639	-0.043033	0.038934	0.612705	-0.043033	-0.043033	0.153689	-0.043033	0.006148
12	5	1	1	1	49	0	0	7	0	2	49	D	0	61	61	0	0.778689	-0.008197	-0.008197	-0.008197	0.778689	-0.02459	-0.02459	0.090164	-0.02459	0.008197
12	6	0	0	0	49	0	0	5	1	5	49	D	0	60	60	0	0.79375	-0.022917	-0.022917	-0.022917	0.79375	-0.022917	-0.022917	0.060417	-0.00625	0.060417
12	7	2	1	2	55	0	0	3	0	0	55	D	1	63	64	0	0.857143	0.015873	0	0.015873	0.857143	-0.015873	-0.015873	0.031746	-0.015873	-0.015873
12	all	7	2	11	223	0	0	37	1	18	223	D	5	299	304	0	0.714047	-0.008361	-0.025084	0.005017	0.714047	-0.031773	-0.031773	0.091973	-0.028428	0.028428
13	3	3	8	0	0	14	20	4	5	20	F	3	54	57	0	0.280423	-0.034392	0.058201	-0.089947	-0.089947	0.169312	0.280423	-0.015873	0.002646		
13	4	2	6	0	0	16	33	0	5	33	F	0	62	62	0	0.465438	-0.034562	0.029954	-0.06682	-0.06682	0.191244	0.465438	-0.06682	0.013825		
13	5	3	3	0	0	5	48	0	1	48	F	1	60	61	0	0.771429	0.021429	0.021429	-0.028571	-0.028571	0.054762	0.771429	-0.028571	-0.011905		
13	6	0	4	0	0	13	42	0	1	42	F	0	60	60	0	0.657143	-0.042857	0.02381	-0.042857	-0.042857	0.17381	0.657143	-0.042857	-0.02619		
13	7	3	1	0	0	2	55	0	3	55	F	0	64	64	0	0.839286	0.026786	-0.004464	-0.020089	-0.020089	0.011161	0.839286	-0.020089	0.026786		
13	all	11	22	0	0	50	198	4	15	198	F	4	300	304	0	0.611429	-0.011905	0.024762	-0.048571	-0.048571	0.118095	0.611429	-0.035238	0.001429		
14	3	0	13	12	1	18	4	1	4	18	E	4	53	57	0	0.245283	-0.09434	0.150943	0.132075	-0.075472	0.245283	-0.018868	-0.075472	-0.018868		
14	4	0	6	4	0	47	3	0	1	47	E	1	61	62	0	0.737705	-0.032787	0.065574	0.032787	-0.032787	0.737705	0.016393	-0.032787	-0.016393		
14	5	0	4	1	1	53	1	0	1	53	E	0	61	61	0	0.850117	-0.018735	0.046838	-0.002342	-0.002342	0.850117	-0.002342	-0.018735	-0.002342		
14	6	0	3	3	0	52	1	0	1	52	E	0	60	60	0	0.847619	-0.019048	0.030952	0.030952	-0.019048	0.847619	-0.002381	-0.019048	-0.002381		
14	7	0	11	3	0	46	3	0	0	46	E	1	63	64	0	0.69161	-0.038549	0.136054	0.00907	-0.038549	0.69161	0.00907	-0.038549	-0.038549		
14	all	0	37	23	2	216	12	1	7	216	E	6	298	304	0	0.685523	-0.03931	0.084851	0.037872	-0.032598	0.685523	0.000959	-0.035954	-0.01582		
15	3	1	21	14	2	4	11			21	B	4	53	57	0	0.275472	-0.101887	0.275472	0.143396	-0.083019	-0.045283	0.086792				
15	4	0	28	13	3	8	7			28	B	3	59	62	0	0.369492	-0.105085	0.369492	0.115254	-0.054237	0.030508	0.013559				
15	5	0	41	4	0	2	12			41	B	2	59	61	0	0.633898	-0.061017	0.633898	0.00678	-0.061017	-0.027119	0.142373				
15	6	0	38	2	0	6	13			38	B	1	59	60	0	0.572881	-0.071186	0.572881	-0.037288	-0.071186	0.030508	0.149153				
15	7	0	47	6	1	1	7			47	B	2	62	64	0	0.709677	-0.048387	0.709677	0.048387	-0.032258	-0.032258	0.064516				
15	all	1	175	39	6	21	50			175	B	12	292	304	0	0.519178	-0.076712	0.519178	0.053425	-0.059589	-0.008219	0.091096				
16	3	3	0	13	1	19	0	17		17	G	4	53	57	0	0.207547	-0.056604	-0.113208	0.132075	-0.09434	0.245283	-0.113208	0.207547			
16	4	2	0	8	0	29	1	21		21	G	1	61	62	0	0.234973	-0.076503	-0.10929	0.021858	-0.10929	0.36612	-0.092896	0.234973			
16	5	2	0	5	1	17	0	35		35	G	1	60	61	0	0.513889	-0.036111	-0.069444	0.013889	-0.052778	0.213889	-0.069444	0.513889			
16	6	0	1	8	0	25	0	26		26	G	0	60	60	0	0.338889	-0.094444	-0.077778	0.038889	-0.094444	0.322222	-0.094444	0.338889			
16	7	3	0	7	0	12	2	37		37	G	3	61	64	0	0.540984	-0.016393	-0.065574	0.04918	-0.065574	0.131148	-0.032787	0.540984			
16	all	10	1	41	2	102	3	136		136	G	9	295	304	0	0.371186	-0.055932	-0.086441	0.049153	-0.083051	0.255932	-0.079661	0.371186			
17	3	0	4	0	16	2	14	12	0	3	16	D	6	51	57	0	0.227941	-0.085784	-0.007353	-0.085784	0.227941	-0.046569	0.188725	0.14951	-0.085784	-0.026961
17	4	0	2	0	27	0	16	8	1	3	27	D	5	57	62	0	0.407895	-0.065789	-0.030702	-0.065789	0.407895	-0.065789	0.214912	0.074561	-0.048246	-0.013158
17	5	0	3	0	33	1	17	4	0	3	33	D	0	61	61	0	0.483607	-0.057377	-0.008197	-0.057377	0.483607	-0.040984	0.221311	0.008197	-0.057377	-0.008197
17	6	0	0	0	42	0	14	2	0	2	42	D	0	60	60	0	0.6625	-0.0375	-0.0375	-0.0375	0.6625	-0.0375	0.195833	-0.004167	-0.0375	-0.004167
17	7	0	2	0	49	1	6	3	0	0	49	D	3	61	64	0	0.778689	-0.02459	0.008197	-0.02459	0.778689	-0.008197	0.07377	0.02459	-0.02459	-0.02459
17	all	0	11	0	167	4	67	29	1	11	167	D	14	290	304	0	0.522845	-0.053017	-0.015086	-0.053017	0.522845	-0.039224	0.178017	0.046983	-0.049569	-0.015086
18	3	0	4	2	19	0	17	2	0	6	17	F	7	50	57	0	0.2575	-0.0825	-0.0025	-0.0425	0.2975	-0.0825	0.2575	-0.0425	-0.0825	0.0375
18	4	0	1	0	9	1	34	4	0	10	34	F	3	59	62	0	0.523305	-0.052966	-0.036017	-0.052966	0.099576	-0.036017	0.523305	0.014831	-0.052966	0.116525
18	5	0	2	0	6	0	41	2	1	7	41	F	2	59	61	0	0.65678	-0.038136	-0.004237	-0.038136	0.063559	-0.038136	0.65678	-0.004237	-0.021186	0.080508
18	6	0	0	0	11	0	42	1	0	5	42	F	1	59	60	0	0.675847	-0.036017	-0.036017	-0.036017	0.150424	-0.036017	0.675847	-0.019068	-0.036017	0.048729
18	7	0	1	0	4	0	53	2	0	4	53	F	0	64	64	0	0.806641	-0.021484	-0.005859	-0.021484	0.041016	-0.021484	0.806641	0.009766	-0.021484	0.041016
18	all	0	8	2	49	1	187	11	1	32	187	F	13	291	304	0	0.597938	-0.044674	-0.017182	-0.037801	0.123711	-0.041237	0.597938	-0.006873	-0.041237	0.065292
19	3	1	8	13	0	23	1	1	5	23	E	5	52	57	0	0.362637	-0.06044	0.074176	0.17033	-0.07967	0.362637	-0.06044	-0.06044	0.016484		

19	4	0	2	9	0	38	0	0	10	38 E	3	59	62	0	0.59322	-0.050847	-0.016949	0.101695	-0.050847	0.59322	-0.050847	-0.050847	0.118644		
19	5	1	3	3	0	44	0	0	9	44 E	1	60	61	0	0.695238	-0.021429	0.011905	0.011905	-0.038095	0.695238	-0.038095	-0.038095	0.111905		
19	6	0	3	5	0	44	0	0	7	44 E	1	59	60	0	0.709443	-0.03632	0.014528	0.048426	-0.03632	0.709443	-0.03632	-0.03632	0.082324		
19	7	0	5	1	0	51	0	0	6	51 E	1	63	64	0	0.782313	-0.027211	0.052154	-0.011338	-0.027211	0.782313	-0.027211	-0.027211	0.068027		
19	all	2	21	31	0	200	1	1	37	200 E	11	293	304	0	0.63725	-0.038518	0.026329	0.060458	-0.045344	0.63725	-0.041931	-0.041931	0.080936		
20	3	4	0	24	0	15	6			24 C	8	49	57	0	0.387755	-0.020408	-0.102041	0.387755	-0.102041	0.204082	0.020408				
20	4	4	0	41	0	11	3			41 C	3	59	62	0	0.633898	0.00678	-0.061017	0.633898	-0.061017	0.125424	-0.010169				
20	5	2	0	40	0	15	3			40 C	1	60	61	0	0.6	-0.033333	-0.066667	0.6	-0.066667	0.183333	-0.016667				
20	6	1	0	49	0	6	2			49 C	2	58	60	0	0.813793	-0.013793	-0.031034	0.813793	-0.031034	0.072414	0.003448				
20	7	1	1	53	0	6	2			53 C	1	63	64	0	0.809524	-0.015873	-0.015873	0.809524	-0.031746	0.063492	0				
20	all	12	1	207	0	53	16			207 C	15	289	304	0	0.659516	-0.015225	-0.053287	0.659516	-0.056747	0.126644	-0.001384				
21	3	0	3	16	1	0	15	15		15 G	7	50	57	0	0.183333	-0.116667	-0.056667	0.203333	-0.096667	-0.116667	0.183333	0.183333			
21	4	0	6	18	0	2	14	17		17 G	5	57	62	0	0.181287	-0.116959	-0.011696	0.19883	-0.116959	-0.081871	0.128655	0.181287			
21	5	1	5	7	0	0	10	36		36 G	2	59	61	0	0.545198	-0.048023	0.019774	0.053672	-0.064972	-0.064972	0.10452	0.545198			
21	6	0	4	10	1	0	11	28		28 G	6	54	60	0	0.438272	-0.080247	-0.006173	0.104938	-0.061728	-0.080247	0.123457	0.438272			
21	7	2	8	9	0	1	4	39		39 G	1	63	64	0	0.555556	-0.031746	0.063492	0.079365	-0.063492	-0.047619	0	0.555556			
21	all	3	26	60	2	3	54	135		135 G	21	283	304	0	0.38987	-0.076561	0.004711	0.124853	-0.080094	-0.076561	0.103651	0.38987			
22	3	3	13	10	2	0	8	0	13	13 B	7	50	57	1	0.154286	-0.045714	0.154286	0.094286	-0.065714	-0.105714	0.054286	-0.105714	0.154286		
22	4	0	21	5	0	2	10	0	19	21 B	5	57	62	0	0.278195	-0.090226	0.278195	-0.002506	-0.090226	-0.055138	0.085213	-0.090226	0.243108		
22	5	1	28	3	0	0	6	0	21	28 B	2	59	61	0	0.399516	-0.058111	0.399516	-0.024213	-0.075061	-0.075061	0.026634	-0.075061	0.280872		
22	6	1	17	2	0	0	9	0	25	17 B	6	54	60	0	0.216931	-0.079365	0.216931	-0.060847	-0.097884	-0.097884	0.068783	-0.097884	0.365079		
22	7	2	32	5	0	0	3	0	20	32 B	2	62	64	0	0.447005	-0.036866	0.447005	0.011521	-0.069124	-0.069124	-0.020737	-0.069124	0.253456		
22	all	7	111	25	2	2	36	0	98	111 B	22	282	304	1	0.306991	-0.061803	0.306991	0.002026	-0.079534	-0.079534	0.041033	-0.086626	0.260892		
23	3	2	4	8	5	0	21	1	3	6	21 F	7	50	57	0	0.3475	-0.0325	0.0075	0.0875	0.0275	-0.0725	0.3475	-0.0525	-0.0125	0.0475
23	4	0	4	0	2	0	36	3	9	4	36 F	4	58	62	0	0.573276	-0.047414	0.021552	-0.047414	-0.012931	-0.047414	0.573276	0.00431	0.107759	0.021552
23	5	0	5	1	4	0	37	3	6	4	37 F	1	60	61	0	0.56875	-0.047917	0.035417	-0.03125	0.01875	-0.047917	0.56875	0.002083	0.052083	0.01875
23	6	0	3	0	4	1	35	4	4	1	35 F	8	52	60	0	0.632212	-0.040865	0.016827	-0.040865	0.036058	-0.021635	0.632212	0.036058	0.036058	-0.021635
23	7	0	3	0	11	0	43	3	0	0	43 F	4	60	64	0	0.68125	-0.035417	0.014583	-0.035417	0.147917	-0.035417	0.68125	0.014583	-0.035417	-0.035417
23	all	2	19	9	26	1	172	14	22	15	172 F	24	280	304	0	0.566071	-0.041071	0.019643	-0.016071	0.044643	-0.044643	0.566071	0.001786	0.030357	0.005357
24	3	2	2	2	5	5	1	18	1	11	5 E	10	47	57	0	-0.005319	-0.069149	-0.069149	-0.069149	-0.005319	-0.005319	-0.090426	0.271277	-0.090426	0.12234
24	4	0	1	6	2	17	0	18	0	12	17 E	6	56	62	0	0.216518	-0.087054	-0.069196	0.020089	-0.051339	0.216518	-0.087054	0.234375	-0.087054	0.127232
24	5	0	1	5	5	27	1	7	0	11	27 E	4	57	61	0	0.407895	-0.065789	-0.048246	0.02193	0.02193	0.407895	-0.048246	0.057018	-0.065789	0.127193
24	6	0	0	5	0	28	1	9	0	6	28 E	11	49	60	0	0.517857	-0.053571	-0.053571	0.048469	-0.053571	0.517857	-0.033163	0.130102	-0.053571	0.068878
24	7	0	0	12	3	33	0	8	0	3	33 E	5	59	64	0	0.504237	-0.055085	-0.055085	0.148305	-0.004237	0.504237	-0.055085	0.080508	-0.055085	-0.004237
24	all	2	4	30	15	110	3	60	1	43	110 E	36	268	304	0	0.336754	-0.066231	-0.058769	0.038246	-0.017724	0.336754	-0.0625	0.150187	-0.069963	0.086754
25	3	2	1	22	3	1	8	0	0	5	22 C	15	42	57	0	0.464286	-0.011905	-0.035714	0.464286	0.011905	-0.035714	0.130952	-0.059524	-0.059524	0.059524
25	4	1	0	32	5	0	7	0	1	8	32 C	8	54	62	0	0.541667	-0.032407	-0.050926	0.541667	0.041667	-0.050926	0.078704	-0.050926	-0.032407	0.097222
25	5	0	1	38	1	0	13	0	0	1	38 C	3	58	61	0	0.612069	-0.043103	-0.025862	0.612069	-0.025862	-0.043103	0.181034	-0.043103	-0.043103	-0.025862
25	6	0	0	36	4	0	10	0	0	1	36 C	9	51	60	0	0.669118	-0.036765	-0.036765	0.669118	0.041667	-0.036765	0.159314	-0.036765	-0.036765	-0.017157
25	7	1	0	43	0	0	12	0	2	0	43 C	6	58	64	0	0.709052	-0.015086	-0.032328	0.709052	-0.032328	-0.032328	0.174569	-0.032328	0.002155	-0.032328
25	all	4	2	171	13	1	50	0	3	19	171 C	41	263	304	0	0.606464	-0.028517	-0.036122	0.606464	0.005703	-0.039924	0.146388	-0.043726	-0.032319	0.028517
26	3	1	7	1	18	3	2	0	7	18 D	18	39	57	0	0.384615	-0.051282	0.102564	-0.051282	0.384615	0	-0.025641	-0.076923	0.102564		
26	4	1	9	0	37	4	0	0	4	37 D	7	55	62	0	0.625974	-0.028571	0.116883	-0.046753	0.625974	0.025974	-0.046753	-0.046753	0.025974		
26	5	0	3	0	48	2	1	1	2	48 D	4	57	61	0	0.819549	-0.022556	0.030075	-0.022556	0.819549	0.012531	-0.005013	-0.005013	0.012531		
26	6	0	4	0	44	0	0	0	2	44 D	10	50	60	0	0.862857	-0.017143	0.062857	-0.017143	0.862857	-0.017143	-0.017143	-0.017143	0.022857		
26	7	0	6	0	48	2	0	1	2	48 D	5	59	64	0	0.786925	-0.026634	0.075061	-0.026634	0.786925	0.007264	-0.026634	-0.009685	0.007264		
26	all	2	29	1	195	11	3	2	17	195 D	44	260	304	0	0.714286	-0.028022	0.075824	-0.031868	0.714286	0.006593	-0.024176	-0.028022	0.02967		
27	3	0	8	0	4	4	2	1	9	10	10 I	19	38	57	0	0.171053	-0.092105	0.118421	-0.092105	0.013158	0.013158	-0.039474	-0.065789	0.144737	0.171053
27	4	0	5	3	1	5	4	0	8	28	28 I	8	54	62	0	0.458333	-0.060185	0.032407	-0.00463	-0.041667	0.032407	0.013889	-0.060185	0.087963	0.458333
27	5	0	4	0	4	0	3	1	4	39	39 I	6	55	61	0	0.672727	-0.036364	0.036364	-0.036364	0.036364	-0.036364	0.018182	-0.018182	0.036364	0.672727
27	6	0	3	0	5	1	1	0	8	30	30 I	12	48	60	0	0.578125	-0.046875	0.015625	-0.046875	0.057292	-0.026042	-0.026042	-0.046875	0.119792	0.578125
27	7	0	4	1	5	1	3	0	3	39	39 I	8	56	64	0	0.658482	-0.037946	0.033482	-0.020089	0.051339	-0.020089	0.015625	-0.037946	0.015625	0.658482
27	all	0	24	4	19	11	13	2	32	146	146 I	53	251	304	0	0.529382	-0.052291	0.043327	-0.036355	0.023406	-0.008466	-0.000498	-0.044323	0.075199	0.529382
28	3	2	2	1	19	0	8	2	0	2	19 D	21	36	57	0	0.46875	-0.003472	-0.003472	-0.03125	0.46875	-0.059028	0.163194	-0.003472	-0.059028	-0.003472
28	4	1	5	3	25	1	14	1	0	3	25 D	9	53	62	0	0.40566	-0.04717	0.028302	-0.009434	0.40566	-0.04717	0.198113	-0.		

28	5	0	3	0	40	0	6	0	1	5	40	D	6	55	61	0	0.693182	-0.034091	0.020455	-0.034091	0.693182	-0.034091	0.075	-0.034091	-0.015909	0.056818
28	6	0	3	1	36	0	6	0	0	1	36	D	13	47	60	0	0.736702	-0.029255	0.034574	-0.007979	0.736702	-0.029255	0.098404	-0.029255	-0.029255	-0.007979
28	7	1	3	0	49	0	3	0	0	0	49	D	8	56	64	0	0.859375	0.002232	0.037946	-0.015625	0.859375	-0.015625	0.037946	-0.015625	-0.015625	-0.015625
28	all	4	16	5	169	1	37	3	1	11	169	D	57	247	304	0	0.644737	-0.023279	0.025304	-0.019231	0.644737	-0.035425	0.110324	-0.027328	-0.035425	0.005061
29	3	1	2	9	1	2	8	14			14	G	20	37	57	0	0.274775	-0.076577	-0.04955	0.13964	-0.076577	-0.04955	0.112613	0.274775		
29	4	0	2	6	1	1	13	30			30	G	9	53	62	0	0.493711	-0.072327	-0.034591	0.040881	-0.053459	-0.053459	0.172956	0.493711		
29	5	0	5	2	0	0	10	38			38	G	6	55	61	0	0.639394	-0.051515	0.039394	-0.015152	-0.051515	-0.051515	0.130303	0.639394		
29	6	0	1	2	0	0	8	36			36	G	13	47	60	0	0.72695	-0.039007	-0.01773	0.003546	-0.039007	-0.039007	0.131206	0.72695		
29	7	0	1	2	1	2	3	46			46	G	9	55	64	0	0.809091	-0.027273	-0.009091	0.009091	-0.009091	0.009091	0.027273	0.809091		
29	all	1	11	21	3	5	42	164			164	G	57	247	304	0	0.607962	-0.051957	-0.011471	0.029015	-0.04386	-0.035762	0.114035	0.607962		
30	3	1	4	1	7	1	0	7	2	13	13	I	21	36	57	0	0.28125	-0.052083	0.03125	-0.052083	0.114583	-0.052083	-0.079861	0.114583	-0.024306	0.28125
30	4	0	4	1	9	1	1	11	3	22	22	I	10	52	62	0	0.350962	-0.072115	0.004808	-0.052885	0.100962	-0.052885	-0.052885	0.139423	-0.014423	0.350962
30	5	0	2	0	6	1	0	8	4	34	34	I	6	55	61	0	0.570455	-0.047727	-0.011364	-0.047727	0.061364	-0.029545	-0.047727	0.097727	0.025	0.570455
30	6	1	1	3	11	0	0	4	1	27	27	I	12	48	60	0	0.507813	-0.033854	-0.033854	0.007813	0.174479	-0.054688	-0.054688	0.028646	-0.033854	0.507813
30	7	0	5	0	5	1	0	6	0	35	35	I	12	52	64	0	0.632212	-0.040865	0.055288	-0.040865	0.055288	-0.021635	-0.040865	0.074519	-0.040865	0.632212
30	all	2	16	5	38	4	1	36	10	131	131	I	61	243	304	0	0.481481	-0.049383	0.00823	-0.037037	0.098765	-0.041152	-0.053498	0.090535	-0.016461	0.481481
31	3	1	9	7	4	1	11	0	0	2	9	B	22	35	57	0	0.164286	-0.064286	0.164286	0.107143	0.021429	-0.064286	0.221429	-0.092857	-0.092857	-0.035714
31	4	0	20	12	2	0	12	0	2	4	20	B	10	52	62	0	0.307692	-0.076923	0.307692	0.153846	-0.038462	-0.076923	0.153846	-0.076923	-0.038462	0
31	5	0	30	13	3	0	3	1	0	5	30	B	6	55	61	0	0.488636	-0.056818	0.488636	0.179545	-0.002273	-0.056818	-0.002273	-0.038636	-0.056818	0.034091
31	6	0	26	5	1	0	9	0	3	2	26	B	14	46	60	0	0.51087	-0.054348	0.51087	0.054348	-0.032609	-0.054348	0.141304	-0.054348	0.01087	-0.01087
31	7	0	35	10	3	1	3	1	0	0	35	B	11	53	64	0	0.617925	-0.042453	0.617925	0.146226	0.014151	-0.023585	0.014151	-0.023585	-0.042453	-0.042453
31	all	1	120	47	13	2	38	2	5	13	120	B	63	241	304	0	0.435166	-0.05861	0.435166	0.132261	-0.008817	-0.054461	0.094917	-0.054461	-0.042012	-0.008817

97 75 0.22
96 44 0.51
98 19 0.78
65 46 0.19
99 38 0.6
82 48 0.34
97 31 0.65
98 25 0.72
97 33 0.63
81 29 0.51
80 43 0.37
100 31 0.68
93 30 0.62
95 42 0.52
90 24 0.65
78 21 0.56
91 22 0.68
95 29 0.65
92 43 0.48
99 32 0.66
78 19 0.58
64 8 0.55
91 29 0.61
74 3 0.7
85 34 0.5
97 35 0.61
90 14 0.75
99 18 0.8

97 9 0.87
91 9 0.81
83 10 0.72

Item	Grade	A	B	C	D	right ans	right missi	attempts	doub	N	IF	IF - A	IF - B	IF - C	IF - D
1	3	16	39	2	0	39 B	0	57	0	57	0.578947	0.040936	0.578947	-0.28655	-0.333333
1	4	3	54	3	2	54 B	0	62	0	62	0.827957	-0.268817	0.827957	-0.268817	-0.290323
1	5	6	55	0	0	55 B	0	61	0	61	0.868852	-0.202186	0.868852	-0.333333	-0.333333
1	6	2	57	1	0	57 B	0	60	0	60	0.933333	-0.288889	0.933333	-0.311111	-0.333333
1	7	1	61	1	1	61 B	0	64	0	64	0.9375	-0.3125	0.9375	-0.3125	-0.3125
1 all		28	266	7	3	266 B	0	304	0	304	0.833333	-0.210526	0.833333	-0.302632	-0.320175
2	3	48	3	5	1	48 A	0	57	0	57	0.789474	0.789474	-0.263158	-0.216374	-0.309942
2	4	58	0	3	0	58 A	1	61	0	62	0.934426	0.934426	-0.333333	-0.26776	-0.333333
2	5	59	0	2	0	59 A	0	61	0	61	0.956284	0.956284	-0.333333	-0.289617	-0.333333
2	6	57	0	2	1	57 A	0	60	0	60	0.933333	0.933333	-0.333333	-0.288889	-0.311111
2	7	61	0	3	0	61 A	0	64	0	64	0.9375	0.9375	-0.333333	-0.270833	-0.333333
2 all		283	3	15	2	283 A	1	303	0	304	0.911991	0.911991	-0.320132	-0.267327	-0.324532
3	3	5	3	45	2	45 C	2	55	0	57	0.757576	-0.212121	-0.260606	0.757576	-0.284848
3	4	2	3	56	0	56 C	1	61	0	62	0.89071	-0.289617	-0.26776	0.89071	-0.333333
3	5	4	2	55	0	55 C	0	61	0	61	0.868852	-0.245902	-0.289617	0.868852	-0.333333
3	6	2	3	54	0	54 C	1	59	0	60	0.887006	-0.288136	-0.265537	0.887006	-0.333333
3	7	1	0	63	0	63 C	0	64	0	64	0.979167	-0.3125	-0.333333	0.979167	-0.333333
3 all		14	11	273	2	273 C	4	300	0	304	0.88	-0.271111	-0.284444	0.88	-0.324444
4	3	1	17	18	18	18 D	3	54	0	57	0.111111	-0.308642	0.08642	0.111111	0.111111
4	4	3	7	16	34	34 D	1	61	1	62	0.409836	-0.262295	-0.174863	0.021858	0.415301
4	5	2	4	20	35	35 D	0	61	0	61	0.431694	-0.289617	-0.245902	0.103825	0.431694
4	6	2	5	12	40	40 D	1	59	0	60	0.570621	-0.288136	-0.220339	-0.062147	0.570621
4	7	2	4	14	44	44 D	0	64	0	64	0.583333	-0.291667	-0.25	-0.041667	0.583333
4 all		10	37	80	171	171 D	5	299	1	304	0.429208	-0.287625	-0.167224	0.024526	0.430323
5	3	15	38	2	0	38 B	2	55	0	57	0.587879	0.030303	0.587879	-0.284848	-0.333333
5	4	8	50	4	0	50 B	0	62	0	62	0.741935	-0.16129	0.741935	-0.247312	-0.333333
5	5	7	51	3	0	51 B	0	61	0	61	0.781421	-0.180328	0.781421	-0.26776	-0.333333
5	6	6	51	3	0	51 B	0	60	0	60	0.8	-0.2	0.8	-0.266667	-0.333333
5	7	3	58	3	0	58 B	0	64	0	64	0.875	-0.270833	0.875	-0.270833	-0.333333
5 all		39	248	15	0	248 B	2	302	0	304	0.761589	-0.161148	0.761589	-0.267108	-0.333333
6	3	30	3	18	2	30 A	4	53	0	57	0.421384	0.421384	-0.257862	0.119497	-0.283019
6	4	36	1	20	1	36 A	4	58	0	62	0.494253	0.494253	-0.310345	0.126437	-0.310345
6	5	50	0	7	2	50 A	2	59	0	61	0.79661	0.79661	-0.333333	-0.175141	-0.288136
6	6	52	2	3	2	52 A	1	59	0	60	0.841808	0.841808	-0.288136	-0.265537	-0.288136
6	7	49	0	8	6	49 A	1	63	0	64	0.703704	0.703704	-0.333333	-0.164021	-0.206349

6 all	217	6	56	13	217 A	12	292	0	304	0.657534	0.657534	-0.305936	-0.077626	-0.273973	
7	3	1	4	46	5	46 C	1	56	0	57	0.761905	-0.309524	-0.238095	0.761905	-0.214286
7	4	0	2	58	2	58 C	0	62	0	62	0.913978	-0.333333	-0.290323	0.913978	-0.290323
7	5	0	1	58	2	58 C	0	61	0	61	0.934426	-0.333333	-0.311475	0.934426	-0.289617
7	6	0	2	56	2	56 C	0	60	0	60	0.911111	-0.333333	-0.288889	0.911111	-0.288889
7	7	0	2	61	1	61 C	0	64	0	64	0.9375	-0.333333	-0.291667	0.9375	-0.3125
7 all	1	11	279	12	279 C	1	303	0	304	0.894389	-0.328933	-0.284928	0.894389	-0.280528	
8	3	6	7	2	42	42 D	0	57	0	57	0.649123	-0.192982	-0.169591	-0.28655	0.649123
8	4	0	2	2	56	56 D	2	60	0	62	0.911111	-0.333333	-0.288889	-0.288889	0.911111
8	5	1	2	0	56	56 D	2	59	0	61	0.932203	-0.310734	-0.288136	-0.333333	0.932203
8	6	0	0	1	58	58 D	1	59	0	60	0.977401	-0.333333	-0.333333	-0.310734	0.977401
8	7	0	1	1	61	61 D	1	63	0	64	0.957672	-0.333333	-0.312169	-0.312169	0.957672
8 all	7	12	6	273	273 D	6	298	0	304	0.888143	-0.302013	-0.279642	-0.306488	0.888143	
9	3	23	19	12	1	19 B	2	55	0	57	0.127273	0.224242	0.127273	-0.042424	-0.309091
9	4	11	32	14	4	32 B	1	61	0	62	0.36612	-0.092896	0.36612	-0.027322	-0.245902
9	5	8	40	10	1	40 B	2	59	0	61	0.570621	-0.152542	0.570621	-0.107345	-0.310734
9	6	9	39	9	1	39 B	2	58	0	60	0.563218	-0.126437	0.563218	-0.126437	-0.310345
9	7	11	41	10	2	41 B	0	64	0	64	0.520833	-0.104167	0.520833	-0.125	-0.291667
9 all	62	171	55	9	171 B	7	297	0	304	0.434343	-0.054994	0.434343	-0.08642	-0.292929	
10	3	4	38	2	9	38 B	4	53	0	57	0.622642	-0.232704	0.622642	-0.283019	-0.106918
10	4	2	48	2	4	48 B	6	56	0	62	0.809524	-0.285714	0.809524	-0.285714	-0.238095
10	5	4	50	1	5	50 B	1	60	0	61	0.777778	-0.244444	0.777778	-0.311111	-0.222222
10	6	2	52	1	3	52 B	2	58	0	60	0.862069	-0.287356	0.862069	-0.310345	-0.264368
10	7	0	58	0	5	58 B	1	63	0	64	0.89418	-0.333333	0.89418	-0.333333	-0.227513
10 all	12	246	6	26	246 B	14	290	0	304	0.797701	-0.278161	0.797701	-0.305747	-0.213793	
11	3	8	5	41	0	41 C	3	54	0	57	0.679012	-0.135802	-0.209877	0.679012	-0.333333
11	4	10	0	50	2	50 C	0	62	0	62	0.741935	-0.11828	-0.333333	0.741935	-0.290323
11	5	9	0	52	0	52 C	0	61	0	61	0.803279	-0.136612	-0.333333	0.803279	-0.333333
11	6	4	0	54	1	54 C	1	59	0	60	0.887006	-0.242938	-0.333333	0.887006	-0.310734
11	7	4	1	58	0	58 C	1	63	0	64	0.89418	-0.248677	-0.312169	0.89418	-0.333333
11 all	35	6	255	3	255 C	5	299	0	304	0.80379	-0.177258	-0.306577	0.80379	-0.319955	
12	3	18	13	21	2	21 C	3	54	0	57	0.185185	0.111111	-0.012346	0.185185	-0.283951
12	4	21	6	34	0	34 C	1	61	0	62	0.409836	0.125683	-0.202186	0.409836	-0.333333
12	5	20	3	35	0	35 C	3	58	0	61	0.471264	0.126437	-0.264368	0.471264	-0.333333
12	6	26	1	32	0	32 C	1	59	0	60	0.389831	0.254237	-0.310734	0.389831	-0.333333
12	7	27	3	34	0	34 C	0	64	0	64	0.375	0.229167	-0.270833	0.375	-0.333333

12 all	112	26	156	2	156 C	8	296	0	304	0.369369	0.171171	-0.216216	0.369369	-0.324324	
13	3	8	40	2	4	40 B	3	54	0	57	0.654321	-0.135802	0.654321	-0.283951	-0.234568
13	4	2	54	2	3	54 B	1	61	0	62	0.846995	-0.289617	0.846995	-0.289617	-0.26776
13	5	2	54	3	1	54 B	1	60	0	61	0.866667	-0.288889	0.866667	-0.266667	-0.311111
13	6	10	47	1	1	47 B	1	59	0	60	0.728814	-0.107345	0.728814	-0.310734	-0.310734
13	7	3	54	5	2	54 B	0	64	0	64	0.791667	-0.270833	0.791667	-0.229167	-0.291667
13 all	25	249	13	11	249 B	6	298	0	304	0.780761	-0.221477	0.780761	-0.275168	-0.284116	
14	3	1	6	38	8	38 C	4	53	0	57	0.622642	-0.308176	-0.18239	0.622642	-0.132075
14	4	3	2	55	1	55 C	1	61	0	62	0.868852	-0.26776	-0.289617	0.868852	-0.311475
14	5	0	2	59	0	59 C	0	61	0	61	0.956284	-0.333333	-0.289617	0.956284	-0.333333
14	6	0	1	58	0	58 C	1	59	0	60	0.977401	-0.333333	-0.310734	0.977401	-0.333333
14	7	1	1	61	0	61 C	1	63	0	64	0.957672	-0.312169	-0.312169	0.957672	-0.333333
14 all	5	12	271	9	271 C	7	297	0	304	0.883277	-0.310887	-0.279461	0.883277	-0.292929	
15	3	52	0	2	1	52 A	2	55	0	57	0.927273	0.927273	-0.333333	-0.284848	-0.309091
15	4	60	1	0	0	60 A	1	61	0	62	0.978142	0.978142	-0.311475	-0.333333	-0.333333
15	5	57	1	1	1	57 A	1	60	0	61	0.933333	0.933333	-0.311111	-0.311111	-0.311111
15	6	57	0	0	0	57 A	3	57	0	60	1	1	-0.333333	-0.333333	-0.333333
15	7	60	1	0	1	60 A	2	62	0	64	0.956989	0.956989	-0.311828	-0.333333	-0.311828
15 all	286	3	3	3	286 A	9	295	0	304	0.959322	0.959322	-0.319774	-0.319774	-0.319774	
16	3	28	7	3	16	28 A	3	54	0	57	0.358025	0.358025	-0.160494	-0.259259	0.061728
16	4	31	7	3	20	31 A	1	61	0	62	0.344262	0.344262	-0.180328	-0.26776	0.103825
16	5	36	7	2	15	36 A	1	60	0	61	0.466667	0.466667	-0.177778	-0.288889	0
16	6	42	3	0	13	42 A	2	58	0	60	0.632184	0.632184	-0.264368	-0.333333	-0.034483
16	7	35	4	2	21	35 A	2	62	0	64	0.419355	0.419355	-0.247312	-0.290323	0.11828
16 all	172	28	10	85	172 A	9	295	0	304	0.444068	0.444068	-0.20678	-0.288136	0.050847	
17	3	43	5	1	5	43 A	3	54	0	57	0.728395	0.728395	-0.209877	-0.308642	-0.209877
17	4	56	3	0	2	56 A	1	61	0	62	0.89071	0.89071	-0.26776	-0.333333	-0.289617
17	5	55	4	0	1	55 A	1	60	0	61	0.888889	0.888889	-0.244444	-0.333333	-0.311111
17	6	55	2	0	1	55 A	2	58	0	60	0.931034	0.931034	-0.287356	-0.333333	-0.310345
17	7	60	1	0	3	60 A	0	64	0	64	0.916667	0.916667	-0.3125	-0.333333	-0.270833
17 all	269	15	1	12	269 A	7	297	0	304	0.874299	0.874299	-0.265993	-0.328844	-0.279461	
18	3	43	5	2	2	43 A	5	52	0	57	0.769231	0.769231	-0.205128	-0.282051	-0.282051
18	4	46	3	11	1	46 A	1	61	0	62	0.672131	0.672131	-0.26776	-0.092896	-0.311475
18	5	45	2	13	0	45 A	1	60	0	61	0.666667	0.666667	-0.288889	-0.044444	-0.333333
18	6	46	2	9	1	46 A	2	58	0	60	0.724138	0.724138	-0.287356	-0.126437	-0.310345
18	7	48	2	14	0	48 A	0	64	0	64	0.666667	0.666667	-0.291667	-0.041667	-0.333333

18 all	228	14	49	4	228 A	9	295	0	304	0.697175	0.697175	-0.270056	-0.111864	-0.315254
19	3	0	42	5	42 B	5	52	0	57	0.74359	-0.333333	0.74359	-0.205128	-0.205128
19	4	0	56	4	56 B	1	61	0	62	0.89071	-0.333333	0.89071	-0.245902	-0.311475
19	5	1	54	1	54 B	1	60	0	61	0.866667	-0.311111	0.866667	-0.311111	-0.244444
19	6	0	54	3	54 B	2	58	0	60	0.908046	-0.333333	0.908046	-0.264368	-0.310345
19	7	0	60	2	60 B	0	64	0	64	0.916667	-0.333333	0.916667	-0.291667	-0.291667
19 all	1	266	15	13	266 B	9	295	0	304	0.868927	-0.328814	0.868927	-0.265537	-0.274576
20	3	37	5	0	37 A	9	48	0	57	0.694444	0.694444	-0.194444	-0.333333	-0.166667
20	4	51	3	1	51 A	3	59	0	62	0.819209	0.819209	-0.265537	-0.310734	-0.242938
20	5	56	1	1	56 A	2	59	0	61	0.932203	0.932203	-0.310734	-0.310734	-0.310734
20	6	57	0	1	57 A	2	58	0	60	0.977011	0.977011	-0.333333	-0.310345	-0.333333
20	7	61	0	1	61 A	1	63	0	64	0.957672	0.957672	-0.333333	-0.312169	-0.312169
20 all	262	9	4	12	262 A	17	287	0	304	0.883856	0.883856	-0.291521	-0.31475	-0.277584
21	3	7	41	0	41 B	7	50	0	57	0.76	-0.146667	0.76	-0.333333	-0.28
21	4	4	50	5	50 B	1	61	0	62	0.759563	-0.245902	0.759563	-0.224044	-0.289617
21	5	2	56	2	56 B	0	61	0	61	0.89071	-0.289617	0.89071	-0.289617	-0.311475
21	6	0	56	0	56 B	2	58	0	60	0.954023	-0.333333	0.954023	-0.333333	-0.287356
21	7	0	60	1	60 B	2	62	0	64	0.956989	-0.333333	0.956989	-0.311828	-0.311828
21 all	13	263	8	8	263 B	12	292	0	304	0.86758	-0.273973	0.86758	-0.296804	-0.296804
22	3	20	11	15	20 A	10	47	0	57	0.234043	0.234043	-0.021277	0.092199	-0.304965
22	4	28	18	10	28 A	2	60	0	62	0.288889	0.288889	0.066667	-0.111111	-0.244444
22	5	25	20	14	25 A	1	60	0	61	0.222222	0.222222	0.111111	-0.022222	-0.311111
22	6	25	23	8	25 A	2	58	0	60	0.241379	0.241379	0.195402	-0.149425	-0.287356
22	7	34	16	14	34 A	0	64	0	64	0.375	0.375	0	-0.041667	-0.333333
22 all	132	88	61	8	132 A	15	289	0	304	0.275663	0.275663	0.072664	-0.051903	-0.296424
23	3	18	3	6	20 D	10	47	0	57	0.234043	0.177305	-0.248227	-0.163121	0.234043
23	4	15	1	1	42 D	3	59	0	62	0.615819	0.00565	-0.310734	-0.310734	0.615819
23	5	9	5	2	45 D	0	61	0	61	0.650273	-0.136612	-0.224044	-0.289617	0.650273
23	6	8	3	3	43 D	3	57	0	60	0.672515	-0.146199	-0.263158	-0.263158	0.672515
23	7	6	5	3	58 D	1	63	0	64	0.89418	-0.206349	-0.227513	-0.269841	0.703704
23 all	56	17	15	199	199 D	17	287	0	304	0.591173	-0.073171	-0.254355	-0.263647	0.591173
24	3	3	35	1	35 B	12	45	0	57	0.703704	-0.244444	0.703704	-0.303704	-0.155556
24	4	0	54	3	54 B	3	59	0	62	0.887006	-0.333333	0.887006	-0.265537	-0.288136
24	5	2	53	1	53 B	1	60	0	61	0.844444	-0.288889	0.844444	-0.311111	-0.244444
24	6	0	54	0	54 B	3	57	0	60	0.929825	-0.333333	0.929825	-0.333333	-0.263158
24	7	1	56	1	56 B	1	63	0	64	0.851852	-0.312169	0.851852	-0.312169	-0.227513

24 all		6	252	6	20	252 B	20	284	0	304	0.849765	-0.305164	0.849765	-0.305164	-0.239437
25	3	35	7	1	3	35 A	11	46	0	57	0.681159	0.681159	-0.130435	-0.304348	-0.246377
25	4	52	4	1	3	52 A	2	60	0	62	0.822222	0.822222	-0.244444	-0.311111	-0.266667
25	5	56	2	1	2	56 A	0	61	0	61	0.89071	0.89071	-0.289617	-0.311475	-0.289617
25	6	54	1	1	0	54 A	4	56	0	60	0.952381	0.952381	-0.309524	-0.309524	-0.333333
25	7	58	0	0	4	58 A	2	62	0	64	0.913978	0.913978	-0.333333	-0.333333	-0.247312
25 all		255	14	4	12	255 A	19	285	0	304	0.859649	0.859649	-0.267836	-0.31462	-0.277193
26	3	7	21	7	11	21 B	11	46	0	57	0.275362	-0.130435	0.275362	-0.130435	-0.014493
26	4	7	44	2	7	44 B	2	60	0	62	0.644444	-0.177778	0.644444	-0.288889	-0.177778
26	5	6	48	4	1	48 B	2	59	0	61	0.751412	-0.19774	0.751412	-0.242938	-0.310734
26	6	2	49	3	2	49 B	4	56	0	60	0.833333	-0.285714	0.833333	-0.261905	-0.285714
26	7	0	54	4	5	54 B	1	63	0	64	0.809524	-0.333333	0.809524	-0.248677	-0.227513
26 all		22	216	20	26	216 B	20	284	0	304	0.680751	-0.230047	0.680751	-0.239437	-0.211268
27	3	35	2	3	1	35 A	16	41	0	57	0.804878	0.804878	-0.268293	-0.235772	-0.300813
27	4	55	2	0	3	55 A	2	60	0	62	0.888889	0.888889	-0.288889	-0.333333	-0.266667
27	5	58	1	0	0	58 A	2	59	0	61	0.977401	0.977401	-0.310734	-0.333333	-0.333333
27	6	57	1	0	1	57 A	1	59	0	60	0.954802	0.954802	-0.310734	-0.333333	-0.310734
27	7	63	0	0	0	63 A	1	63	0	64	1	1	-0.333333	-0.333333	-0.333333
27 all		268	6	3	5	268 A	22	282	0	304	0.933806	0.933806	-0.304965	-0.319149	-0.309693
28	3	9	20	1	8	8 D	19	38	0	57	-0.052632	-0.017544	0.368421	-0.298246	-0.052632
28	4	3	34	7	15	15 D	3	59	0	62	0.00565	-0.265537	0.435028	-0.175141	0.00565
28	5	1	40	0	18	18 D	2	59	0	61	0.073446	-0.310734	0.570621	-0.333333	0.073446
28	6	3	40	1	14	14 D	2	58	0	60	-0.011494	-0.264368	0.586207	-0.310345	-0.011494
28	7	2	37	0	23	23 D	2	62	0	64	0.16129	-0.290323	0.462366	-0.333333	0.16129
28 all		18	171	9	78	78 D	28	276	0	304	0.043478	-0.246377	0.492754	-0.289855	0.043478
29	3	14	10	2	11	11 D	20	37	0	57	0.063063	0.171171	0.027027	-0.261261	0.063063
29	4	18	13	0	26	26 D	5	57	0	62	0.274854	0.087719	-0.02924	-0.333333	0.274854
29	5	18	9	0	30	30 D	4	57	0	61	0.368421	0.087719	-0.122807	-0.333333	0.368421
29	6	20	9	2	26	26 D	3	57	0	60	0.274854	0.134503	-0.122807	-0.28655	0.274854
29	7	10	13	2	35	35 D	4	60	0	64	0.444444	-0.111111	-0.044444	-0.288889	0.444444
29 all		80	54	6	128	128 D	36	268	0	304	0.303483	0.064677	-0.064677	-0.303483	0.303483
30	3	2	8	2	20	20 D	24	33	1	57	0.474747	-0.242424	0	-0.242424	0.484848
30	4	0	8	2	46	46 D	6	56	0	62	0.761905	-0.333333	-0.142857	-0.285714	0.761905
30	5	0	5	2	49	49 D	5	56	0	61	0.833333	-0.333333	-0.214286	-0.285714	0.833333
30	6	0	2	1	54	54 D	3	57	0	60	0.929825	-0.333333	-0.28655	-0.309942	0.929825
30	7	0	3	1	57	57 D	3	61	0	64	0.912568	-0.333333	-0.26776	-0.311475	0.912568

30 all		2	26	8	226	226 D	41	263	1	304	0.812421	-0.321926	-0.200253	-0.291508	0.813688
31	3	2	24	1	4	24 B	26	31	0	57	0.698925	-0.247312	0.698925	-0.290323	-0.16129
31	4	2	45	2	5	45 B	8	54	0	62	0.777778	-0.283951	0.777778	-0.283951	-0.209877
31	5	3	53	0	0	53 B	5	56	0	61	0.928571	-0.261905	0.928571	-0.333333	-0.333333
31	6	1	57	0	0	57 B	2	58	0	60	0.977011	-0.310345	0.977011	-0.333333	-0.333333
31	7	1	55	0	2	55 B	6	58	0	64	0.931034	-0.310345	0.931034	-0.333333	-0.287356
31 all		9	234	3	11	234 B	47	257	0	304	0.880674	-0.286641	0.880674	-0.317769	-0.276265
32	3	20	4	0	4	20 A	29	28	0	57	0.619048	0.619048	-0.142857	-0.333333	-0.142857
32	4	46	2	0	5	46 A	9	53	0	62	0.823899	0.823899	-0.283019	-0.333333	-0.207547
32	5	50	4	1	0	50 A	6	55	0	61	0.878788	0.878788	-0.236364	-0.309091	-0.333333
32	6	55	1	0	1	55 A	3	57	0	60	0.953216	0.953216	-0.309942	-0.333333	-0.309942
32	7	54	3	1	0	54 A	6	58	0	64	0.908046	0.908046	-0.264368	-0.310345	-0.333333
32 all		225	14	2	10	225 A	53	251	0	304	0.861886	0.861886	-0.258964	-0.322709	-0.280212
33	3	2	23	2	1	23 B	29	28	0	57	0.761905	-0.238095	0.761905	-0.238095	-0.285714
33	4	1	41	9	2	41 B	9	53	0	62	0.698113	-0.308176	0.698113	-0.106918	-0.283019
33	5	7	41	4	2	41 B	7	54	0	61	0.679012	-0.160494	0.679012	-0.234568	-0.283951
33	6	5	45	5	1	45 B	4	56	0	60	0.738095	-0.214286	0.738095	-0.214286	-0.309524
33	7	4	45	6	2	45 B	7	57	0	64	0.719298	-0.239766	0.719298	-0.192982	-0.28655
33 all		19	195	26	8	195 B	56	248	0	304	0.715054	-0.231183	0.715054	-0.193548	-0.290323
34	3	10	15	2	0	15 B	30	27	0	57	0.407407	0.160494	0.407407	-0.234568	-0.333333
34	4	13	38	1	0	38 B	10	52	0	62	0.641026	0	0.641026	-0.307692	-0.333333
34	5	7	45	1	1	45 B	7	54	0	61	0.777778	-0.160494	0.777778	-0.308642	-0.308642
34	6	8	45	0	1	45 B	6	54	0	60	0.777778	-0.135802	0.777778	-0.333333	-0.308642
34	7	7	45	3	1	45 B	8	56	0	64	0.738095	-0.166667	0.738095	-0.261905	-0.309524
34 all		45	188	7	3	188 B	61	243	0	304	0.698217	-0.08642	0.698217	-0.294925	-0.316872
35	3	3	20	3	1	20 B	30	27	0	57	0.654321	-0.185185	0.654321	-0.185185	-0.283951
35	4	5	47	0	1	47 B	9	53	0	62	0.849057	-0.207547	0.849057	-0.333333	-0.308176
35	5	0	52	0	1	52 B	8	53	0	61	0.974843	-0.333333	0.974843	-0.333333	-0.308176
35	6	1	52	0	1	52 B	6	54	0	60	0.950617	-0.308642	0.950617	-0.333333	-0.308642
35	7	0	54	0	0	54 B	10	54	0	64	1	-0.333333	1	-0.333333	-0.333333
35 all		9	225	3	4	225 B	63	241	0	304	0.91148	-0.283541	0.91148	-0.316736	-0.311203
36	3	0	22	2	2	22 B	31	26	0	57	0.794872	-0.333333	0.794872	-0.230769	-0.230769
36	4	1	49	0	3	49 B	9	53	0	62	0.899371	-0.308176	0.899371	-0.333333	-0.257862
36	5	0	50	0	2	50 B	9	52	0	61	0.948718	-0.333333	0.948718	-0.333333	-0.282051
36	6	0	51	0	3	51 B	6	54	0	60	0.925926	-0.333333	0.925926	-0.333333	-0.259259
36	7	0	51	0	2	51 B	11	53	0	64	0.949686	-0.333333	0.949686	-0.333333	-0.283019

36 all		1	223	2	12	223 B	66	238	0	304	0.915966	-0.327731	0.915966	-0.322129	-0.266106
37	3	6	13	3	2	13 B	33	24	0	57	0.388889	0	0.388889	-0.166667	-0.222222
37	4	6	35	4	4	35 B	13	49	0	62	0.619048	-0.170068	0.619048	-0.22449	-0.22449
37	5	4	42	2	0	42 B	13	48	0	61	0.833333	-0.222222	0.833333	-0.277778	-0.333333
37	6	2	50	0	1	50 B	7	53	0	60	0.924528	-0.283019	0.924528	-0.333333	-0.308176
37	7	1	50	2	0	50 B	11	53	0	64	0.924528	-0.308176	0.924528	-0.283019	-0.333333
37 all	19	190	11	7		190 B	77	227	0	304	0.782673	-0.221733	0.782673	-0.268722	-0.292217
38	3	5	6	13	0	13 C	33	24	0	57	0.388889	-0.055556	0	0.388889	-0.333333
38	4	3	10	31	6	31 C	12	50	0	62	0.493333	-0.253333	-0.066667	0.493333	-0.173333
38	5	7	13	30	1	30 C	10	51	0	61	0.45098	-0.150327	0.006536	0.45098	-0.30719
38	6	4	4	41	4	41 C	7	53	0	60	0.698113	-0.232704	-0.232704	0.698113	-0.232704
38	7	3	9	39	2	39 C	11	53	0	64	0.647799	-0.257862	-0.106918	0.647799	-0.283019
38 all	22	42	154	13		154 C	73	231	0	304	0.555556	-0.206349	-0.090909	0.555556	-0.258297
39	3	17	3	1	1	17 A	35	22	0	57	0.69697	0.69697	-0.151515	-0.272727	-0.272727
39	4	43	3	1	0	43 A	15	47	0	62	0.886525	0.886525	-0.248227	-0.304965	-0.333333
39	5	44	2	0	1	44 A	14	47	0	61	0.914894	0.914894	-0.276596	-0.333333	-0.304965
39	6	46	1	0	2	46 A	11	49	0	60	0.918367	0.918367	-0.306122	-0.333333	-0.278912
39	7	50	0	1	2	50 A	11	53	0	64	0.924528	0.924528	-0.333333	-0.308176	-0.283019
39 all	200	9	3	6		200 A	86	218	0	304	0.889908	0.889908	-0.278287	-0.314985	-0.296636
40	3	15	2	1	1	15 A	38	19	0	57	0.719298	0.719298	-0.192982	-0.263158	-0.263158
40	4	48	1	0	1	48 A	12	50	0	62	0.946667	0.946667	-0.306667	-0.333333	-0.306667
40	5	44	1	1	1	44 A	14	47	0	61	0.914894	0.914894	-0.304965	-0.304965	-0.304965
40	6	47	0	0	1	47 A	12	48	0	60	0.972222	0.972222	-0.333333	-0.333333	-0.305556
40	7	51	1	0	1	51 A	11	53	0	64	0.949686	0.949686	-0.308176	-0.333333	-0.308176
40 all	205	5	2	5		205 A	87	217	0	304	0.926267	0.926267	-0.302611	-0.321045	-0.302611
41	3	4	3	9	2	9 C	39	18	0	57	0.333333	-0.037037	-0.111111	0.333333	-0.185185
41	4	2	3	34	9	34 C	14	48	0	62	0.611111	-0.277778	-0.25	0.611111	-0.083333
41	5	7	2	38	1	38 C	13	48	0	61	0.722222	-0.138889	-0.277778	0.722222	-0.305556
41	6	2	3	37	4	37 C	14	46	0	60	0.73913	-0.275362	-0.246377	0.73913	-0.217391
41	7	1	4	40	4	40 C	15	49	0	64	0.755102	-0.306122	-0.22449	0.755102	-0.22449
41 all	16	15	158	20		158 C	95	209	0	304	0.674641	-0.23126	-0.23764	0.674641	-0.205742
42	3	14	2	2	0	14 A	39	18	0	57	0.703704	0.703704	-0.185185	-0.185185	-0.333333
42	4	47	0	1	1	47 A	13	49	1	62	0.945578	0.945578	-0.333333	-0.306122	-0.306122
42	5	42	2	2	0	42 A	15	46	0	61	0.884058	0.884058	-0.275362	-0.275362	-0.333333
42	6	43	1	1	1	43 A	14	46	0	60	0.913043	0.913043	-0.304348	-0.304348	-0.304348
42	7	47	0	2	0	47 A	15	49	0	64	0.945578	0.945578	-0.333333	-0.278912	-0.333333

42 all	193	5	8	2	193 A	96	208	0	304	0.903846	0.903846	-0.301282	-0.282051	-0.320513	
43	3	1	3	13	0	13 C	40	17	0	57	0.686275	-0.254902	-0.098039	0.686275	-0.333333
43	4	2	4	39	4	39 C	13	49	0	62	0.727891	-0.278912	-0.22449	0.727891	-0.22449
43	5	1	2	43	0	43 C	15	46	0	61	0.913043	-0.304348	-0.275362	0.913043	-0.333333
43	6	3	1	42	1	42 C	13	47	0	60	0.858156	-0.248227	-0.304965	0.858156	-0.304965
43	7	2	0	46	0	46 C	16	48	0	64	0.944444	-0.277778	-0.333333	0.944444	-0.333333
43 all	9	10	183	5	183 C	97	207	0	304	0.845411	-0.275362	-0.268921	0.845411	-0.301127	
44	3	12	2	3	2	12 A	38	19	0	57	0.508772	0.508772	-0.192982	-0.122807	-0.192982
44	4	30	5	11	1	30 A	15	47	0	62	0.51773	0.51773	-0.191489	-0.021277	-0.304965
44	5	30	6	8	1	30 A	16	45	0	61	0.555556	0.555556	-0.155556	-0.096296	-0.303704
44	6	30	6	10	0	30 A	14	46	0	60	0.536232	0.536232	-0.15942	-0.043478	-0.333333
44	7	32	5	15	0	32 A	12	52	0	64	0.487179	0.487179	-0.205128	0.051282	-0.333333
44 all	134	24	47	4	134 A	95	209	0	304	0.521531	0.521531	-0.180223	-0.033493	-0.307815	
45	3	4	13	0	1	13 B	39	18	0	57	0.62963	-0.037037	0.62963	-0.333333	-0.259259
45	4	14	27	5	1	27 B	15	47	0	62	0.432624	0.06383	0.432624	-0.191489	-0.304965
45	5	14	30	1	0	30 B	16	45	0	61	0.555556	0.081481	0.555556	-0.303704	-0.333333
45	6	5	35	3	2	35 B	15	45	0	60	0.703704	-0.185185	0.703704	-0.244444	-0.274074
45	7	15	33	2	2	33 B	12	52	0	64	0.512821	0.051282	0.512821	-0.282051	-0.282051
45 all	52	138	11	6	138 B	97	207	0	304	0.555556	0.00161	0.555556	-0.26248	-0.294686	
46	3	3	3	1	11	11 D	39	18	0	57	0.481481	-0.111111	-0.111111	-0.259259	0.481481
46	4	7	3	3	36	36 D	13	49	0	62	0.646259	-0.142857	-0.251701	-0.251701	0.646259
46	5	6	2	2	35	35 D	16	45	0	61	0.703704	-0.155556	-0.274074	-0.274074	0.703704
46	6	7	1	0	37	37 D	15	45	0	60	0.762963	-0.125926	-0.303704	-0.333333	0.762963
46	7	3	3	1	45	45 D	12	52	0	64	0.820513	-0.25641	-0.25641	-0.307692	0.820513
46 all	26	12	7	164	164 D	95	209	0	304	0.712919	-0.167464	-0.256778	-0.288676	0.712919	

Item	Grade	n1	n10	n101	n11	n110	n12	n120	n13	n130	n2	n20	n21	n210	n22	n220	n23	n230	n3	n30	n31	n310	n32	n320	n33	n330	others	right answers	missing	attempts	N	IF
a_23	3				3				1				3	4		33	3		1				6					33	3	54	57	
a_23	4						1		2		1		2	7		49												49	0	62	62	
a_23	5				1				1				3			50			1	1			1				n50x1	50	1	60	61	
a_23	6	1							1				1	3		53							1					53	0	60	60	
a_23	7								2							60			1	1								60	0	64	64	
a_23	all	1			4		1		7		1		9	14		245	3		3	2			8			n50x1	245	4	304	304		
b_2	3		1		2						26	20					1		1						1	n24x1	26	4	54	57		
b_2	4		3								37	13			1				1	3							37	4	62	62		
b_2	5						1				48	12															48	0	59	61		
b_2	6	2	2								43	12					1										43	0	60	60		
b_2	7										58	6															58	0	63	64		
b_2	all	2	6		2		1				212	63			1		2		2	3						n24x1	212	8	298	304		
c_11	3	1			40		1		2		1		2	1							5		1			n15x1	54	3	54	57		
c_11	4		1		52		3		3				2	1													62	0	62	62		
c_11	5		1		52				1				1				1		1		2						59	2	59	61		
c_11	6				48		5		1			1	1	1							2					n14x1	60	0	60	60		
c_11	7			1	59		1					1	1														63	1	63	64		
c_11	all	1	2	1	251		10		7		1	1	7	1	3		1		1		9		1			n14x1; n15x1	298	6	298	304		
d_33	3				2		1									3				2	3		5		35	n303x2; n4x1	51	3	63	57		
d_33	4				1								3				1		1		1		2		48	n203x1	64	4	74	62		
d_33	5																								55		51	5	57	61		
d_33	6						1		2						1				1				2		51		59	0	60	60		
d_33	7	1																							63		65	0	67	64		
d_33	all	1			3				2				3	4		1		2	2	5		9		252	n4x1; n203x1; n303x1	290	14	321	304			
e_21	3	1			1				1			1	37	6		1		1	1	1						n202x1	37	5	52	57		
e_21	4				4						1		52	2		2											52	1	61	62		
e_21	5						1						57	1							1						57	1	60	61		
e_21	6						1					1	53	1		1					1					n24x1	53	1	59	60		
e_21	7	1											61	1		1											61	1	63	64		
e_21	all	2			5		2		1		1	2	260	11		5		1	1	3						n24x1; n202x1	260	9	295	304		
f_3	3		3						1		2								43	11							43	4	62	57		
f_3	4	1																	60	14							60	0	75	62		
f_3	5	1	1								1								50	4							50	0	57	61		
f_3	6		1									1							58								58	0	60	60		
f_3	7																		64	3							64	0	67	64		
f_3	all	2	5						1		3	1		2				##	32								275	4	321	304		
g_12	3						42	1	3		1	3		4		1		2				2				n24x1	42	6	60	57		
g_12	4		1				56		1				3	8						1							56	5	70	62		
g_12	5				1		40	1	1			2	2	5												n42x1	40	4	53	61		
g_12	6						53	1					2	3									1				53	0	60	60		
g_12	7						59						2	2		1											59	3	64	64		
g_12	all		1		1		250	3	5		1	5	9	22		2		2	1			3				n24x1; n42x1	250	18	307	304		
h_30	3		1								1	1							9	50							50	4	62	57		
h_30	4		1																2	72							72	0	75	62		
h_30	5		1																6	50							50	0	57	61		
h_30	6																		3	56							56	1	59	60		
h_30	7																		8	59							59	0	67	64		
h_30	all		3								1	1						28	287								287	5	320	304		
i_22	3		1		3		6				1	3	1	45	1	1				1							45	3	63	57		
i_22	4	1	1				4		1		1		2	57	1	2				1							57	4	71	62		
i_22	5						2					1	4	48	1	1											48	0	57	61		
i_22	6						3				1		1	52	2												52	1	59	60		
i_22	7						1					1	1	63		1											63	0	67	64		
i_22	all	1	2		3		16		1		3	5	9	265	5	5				2							265	8	317	304		

j_1	3	43	7		1		4		1		1	1		1		43	6	60	57
j_1	4	63	4	1			3	2			1					63	0	75	62
j_1	5	50	2		1		1	1	1		1					50	0	57	61
j_1	6	56	2		1		1	1								56	1	59	60
j_1	7	64					2									64	1	66	64
j_1 all		276	13	1	2		12	4	1	1		3	1			276	8	317	304
k_31	3	1		1		1	1	1			1	47	7	2		47	3	63	57
k_31	4			1	1						1	1	64	6		64	0	75	62
k_31	5					1				1		1	51	2	1	51	0	57	61
k_31	6												57	2	1	57	0	60	60
k_31	7												63	3		63	1	66	64
k_31 all		1		1	1	2	1	1		1	2	2	282	20	4	282	4	321	304
l_20	3		5				2	45	2		1	1				45	9	57	57
l_20	4	1	1	1		1	4	60	1	2		1				60	3	72	62
l_20	5	1	4				5	46								46	1	56	61
l_20	6		2		1		4	49	1		1					49	2	58	60
l_20	7						1	62			1					62	3	64	64
l_20 all		2	12	1	1	1	16	262	4	2	2	2	1			262	18	307	304
m_32	3		1		1	2		1				1	1	53	3	53	3	63	57
m_32	4									1		2	2	67		67	1	74	62
m_32	5						1							54	2	54	0	57	61
m_32	6							1	1				1	55	1	55	1	59	60
m_32	7								1				2	62	1	62	1	66	64
m_32 all			1		1	2		2	1	2	1	3	6	291	2	291	6	319	304
n_10	3	3	49			2	1	2			1	3		1		49	4	62	57
n_10	4	2	57	1		1	3	8			1					57	2	73	62
n_10	5	1	47				3	4	1							47	1	56	61
n_10	6	1	54	1				3								54	1	59	60
n_10	7		62	3				1								62	1	66	64
n_10 all		7	269	5		3	7	18	1		2	3		1		269	9	316	304
n_13	3					51		1	1	1	3	1	1		1	51	4	62	57
n_13	4				4	53					10	2	1	1	1	53	2	73	62
n_13	5		1	1		48	1				3				1	48	1	56	61
n_13	6			2	1	54					3					54	0	60	60
n_13	7		1			59					3					59	4	63	64
n_13 all			2	3	5	265	1	1	1	1	22	2	1	2	1	265	11	314	304
o_33	3			1						2	1	2		52		52	7	59	57
o_33	4											4		2	68	68	0	75	62
o_33	5						1			1				55		55	0	57	61
o_33	6											1	1	57	1	57	0	60	60
o_33	7												1	66		66	0	67	64
o_33 all				1			1		2	2		6	1	4	298	298	7	318	304
p_21	3	1		2		1	1	48	2	3	1					48	7	59	57
p_21	4		1	2				66	1	1		1				66	2	73	62
p_21	5			1	3			48	1	2		1				48	0	57	61
p_21	6			1	1			56		2						56	0	60	60
p_21	7			1				62		2	1					62	1	66	64
p_21 all		1	1	7	4	1	1	280	2	9	4	1	2			280	10	315	304
q_12	3				50		1	1			1		3	1		50	8	58	57
q_12	4			1	58		2	1	8	1		1		1		58	2	73	62
q_12	5				1	46	2		1	2	2			1		46	1	56	61
q_12	6				55	1				4						55	0	60	60
q_12	7			1	60			1		1				1		60	3	64	64
q_12 all				2	1	269	3	3	4	14	4	1	1	6	1	269	14	311	304
r_22	3			1	5	1		5	43			2		1		43	7	59	57

r_22	4			6		1	3	57	1	2	1					57	4	71	62
r_22	5		2	2	1		1	2	46	1			1	n15x1; 222x1		46	0	57	61
r_22	6			2				58								58	0	60	60
r_22	7		1	1			2	62								62	1	66	64
r_22	all		4	16	1	1	1	12	266	2	4	2	1	n15x1; n222x1		266	12	313	304
s_13	3		1		47		1	2	6		1	1				47	6	60	57
s_13	4	1		2	58			1	9		1			n40x1		58	2	73	62
s_13	5				46	1		2	4	1	1					46	0	57	61
s_13	6		1		56				3							56	0	60	60
s_13	7			1	60				4							60	2	65	64
s_13	all	1	2	3	267	1	1	2	3	26	1	2	1	1	1	267	10	315	304
t_32	3			5		1		2			1		1	51		51	4	62	57
t_32	4	1		1				1			1	2	63	1	2	63	1	74	62
t_32	5					1			2	2	2	2	49	1		49	0	57	61
t_32	6												59	1		59	0	60	60
t_32	7											3	60	4		60	0	67	64
t_32	all		1	6		1	1	3	2	2	2	7	1	282	3	282	5	320	304
u_23	3				2	1	2	1	1	50	2				1	50	5	61	57
u_23	4		1	1	1		1		67						67	1	74	62	
u_23	5			1	1		2		49	1	1				49	0	57	61	
u_23	6			1	2		4		53						53	0	60	60	
u_23	7				1				65						65	1	66	64	
u_23	all		1	3	9	2	3	6	1	1	284	1	2	1	1	284	7	318	304
v_11	3	1	1	41	3	1		6	1	1	4		1	1	n4x1; n44	41	3	63	57
v_11	4		2	52	3	3		7	1		1	1	1	2		52	1	74	62
v_11	5			43		1		7	1		1				43	3	54	61	
v_11	6			56		2		1	1						56	0	60	60	
v_11	7			62	1	1		1							62	1	66	64	
v_11	all	1	3	254	7	8		22	1	3	1	1	6	1	3	254	8	317	304
w_20	3		7			5	46	1			1	2			46	4	62	57	
w_20	4		7	1		6	58				2				58	1	74	62	
w_20	5	1	5		1	2	47				1				47	0	57	61	
w_20	6		3			4	51	1							51	1	59	60	
w_20	7		7			1	56	1							56	2	65	64	
w_20	all	1	29	1	1	18	258	2	1		1	5			258	8	317	304	
x_2	3	2		1		31	26				1		1		31	4	62	57	
x_2	4	1	4			41	23			3					41	4	71	62	
x_2	5	1	2			39	14	1							39	0	57	61	
x_2	6					44	15								44	1	59	60	
x_2	7		1			56	9								56	1	66	64	
x_2	all	4	7	1		211	87	1		2	1		1		211	10	315	304	

Appendix O – Percentile tables of the MLAT-ES and MLAT-EC per parts

Table O-1. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 1 Score. Raw part scores corresponding to designated percentiles..... 2

Table O-2 Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 2 Score. Raw part scores corresponding to designated percentiles 3

Table O-3 Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 3 Score. Raw part scores corresponding to designated percentiles 4

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Table O-5. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC, Part 1 Score. Raw part scores corresponding to designated percentiles..... 6

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Table O-8. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC Part 4 Score. Raw part scores corresponding to designated percentiles 9

Table O-1. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 1 Score. Raw part scores corresponding to designated percentiles

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	28-30	30	30	30	30
97	27	29			
95	25-26				
93	24	28	29		
90	23				
87					
84	22	27	28	29	
81	21				
78	19-20				
75	17-18	26			
72	16		27	28	
69	15	25			29
66					
63	14	23-24	26		
60	13			27	
57	12	22			
54				26	
51	11	21	25		
48				25	28
45		19-20	24	24	
42		18			
39		17	23	23	
36					
33	10	16	22	21-22	27
30	9		21	19-20	
27		15	20	17-18	26
24	8	14	19		25
21		13		15-16	24
18	7	12			
15		11	18	13-14	
12	5-6	10	14-17	12	22-23
9	4	9	13	11	20-21
6	3	7-8	10-12	9-10	19
3		5-6	9		18
1	0-2	0-4	0-8	0-8	0-17
N	66	75	57	60	67
Mean	12.82	19.45	22.93	22.67	26.76
SD	6.81	6.81	5.33	6.65	3.22

**Table O-2 Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 2 Score.
Raw part scores corresponding to designated percentiles**

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	27-30	29-30	30	30	30
97	25	28			
95	23-24				
93	22		29		
90	21	27			
87		26	28		
84	20	25	27	29	29
81	18				
78					
75	17	24	26	28	
72		23			28
69	16		25		
66			24		
63	15			27	
60	14	22	23		27
57	13	20	22		
54		19	20-21		
51	12		19	25-26	
48	11	17-18	18		
45					26
42		16		24	
39	10	15	15-17		25
36		14	14		
33		13		23	
30	9		13		23-24
27	8	12	12	22	
24		11	11		21
21				20-21	
18	7	10		17-19	19-20
15		9	10	15-16	15-18
12	6	8	9	11-14	12-14
9		7	7-8	8-10	11
6	5	6	5-6		10
3	4	3-5	4	7	4-9
1	0-3	0-2	0-3	0-6	0-3
N	66	75	57	60	67
Mean	12.58	17.55	18.63	23.33	23.99
SD	5.87	7.21	7.88	6.40	6.13

**Table O-3 Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 3 Score.
Raw part scores corresponding to designated percentiles**

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	37-38	38	38	38	38
97	36				
95					
93		37			
90					
87	35				
84	34	36	37		
81	33				
78	32	35			37
75	30-31				
72	29	34	36	37	
69		33	35		
66	27-28	32			
63	26	31			
60	25	30	34		
57		29	33	36	36
54	24				
51	23	26-28			
48	22	25		35	35
45	21	23-24	32		
42	19-20	22	31		34
39	18			33-34	
36	17	21	26-29	31-32	33
33	16	20	25	30	
30	15		24	28-29	
27	14	19	23	27	32
24	13	18	28	25-26	
21				23-24	30-31
18	12	16-17	21	20-22	29
15	11	14-15	16-20		28
12	10	11-13	13-15	19	27
9	9	9-10	11-12	17-18	21-26
6	7-8	7-8	10	14-16	18-20
3	4-6	6	7	9-13	17
1	0-3	0-5	0-6	0-8	0-16
N	66	75	57	60	67
Mean	22.12	25.31	28.74	31.18	33.10
SD	9.38	9.43	8.83	7.77	5.34

Table O-4. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-ES, Part 4 Score. Raw part scores corresponding to designated percentiles

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	25	25	25	25	25
97					
95					
93					
90					
87					
84					
81					
78					
75	24	24			
72	23				
69	22				
66	21				
63					
60		23			
57	20				
54					
51		22	24		
48	19				
45				24	24
42		21	22-23		
39	18	20			
36	17	19		23	
33					
30	16	17-18	21		
27		16	20		
24	13-15	15	18-19		
21	12		16-17	22	23
18	11	14	14-15	21	22
15	7-10	12-13	13		18-21
12	6		12	18-20	16-17
9	4-5	11	11	16-17	15
6	3	5-10	6-10	12-15	11-14
3	2	4	3-5	11	4-10
1	0-1	0-3	0-2	0-10	0-3
N	66	75	57	60	67
Mean	17.58	19.53	20.82	22.75	22.84
SD	6.79	5.66	5.52	3.42	4.14

**Table O-5. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC, Part 1 Score.
Raw part scores corresponding to designated percentiles**

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	28-30	30	30	30	30
97	27				
95					
93	26		29		
90	25	29		29	
87	24				
84	22-23	28			
81	21		28	28	
78	19-20	27			29
75	18	26			
72	17	25		27	
69	16		27		
66					
63	15	24	26		
60	14			26	28
57	13	23			
54	12			25	
51		22	25		27
48	11		24		26
45		21			
42	10			24	
39	9	20			25
36		19	22-23		
33	8	18	21	23	
30			20	22	24
27		17	19		
24	4	15-16			
21	5-6			21	23
18	4	14	17-18	18-20	22
15	3	13		16-17	21
12	2	12	14-16	15	20
9		10-11	13	14	14-19
6	1	8-9	12	10-13	12-13
3		6-7	9-11	5-9	11
1	0	0-5	0-8	0-4	0-10
N	57	62	61	60	64
Mean	12.37	20.65	22.75	23.47	25.16
SD	8.03	6.45	5.46	5.47	4.82

**Table O-6. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC, Part 2 Score.
Raw part scores corresponding to designated percentiles**

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	27-29	29	29	29	29
97	23-26				
95	22	28			
93					
90	19-21	27	28		
87	18	26			28
84	17		27	28	
81	15-16	25		27	
78	14	24			
75	13	21-23	26	26	27
72		19-20		25	
69	12				
66		18	25	24	
63	11		24		
60		16-17	23	23	26
57		15		22	25
54	10	14	22		
51			21	21	24
48		13			
45			20	20	23
42			19	19	22
39	9	12	18	18	
36	8		17	17	21
33		11		16	
30			15-16	14-15	19-20
27	7		14	13	18
24	6	10	13		16-17
21			12	12	14-15
18			11	11	12-13
15	5	9	10	10	11
12	4	7-8	9	9	10
9	3		8-9	8	8-9
6					
3	2	4-6	7		7
1	0-1	0-3	0-6	0-7	0-6
N	57	62	61	60	64
Mean	10.40	15.55	19.44	19.28	21.31
SD	6.02	7.08	6.96	7.06	6.81

Table O-7. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC Part 3 Score. Raw part scores corresponding to designated percentiles

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	36-38	38	38	38	38
97					
95	35				
93	34	37			
90	33		37	37	
87	31-32				37
84	28-30		36	36	
81	26-27	36			
78	25	35			
75	21-24		35		
72	20				36
69	19	34			
66		33	34		
63	18		33		
60	17			35	35
57		32			34
54		31	32	34	
51	16	29-30	31	33	
48	15	28			
45		27		32	33
42	14	26	30		32
39			29	31	31
36	13		28	30	30
33	12	24-25		28-29	
30		22-23	27	27	28
27	11	21	25-26		26-27
24	10			26	25
21	9	20	23-24	25	24
18	7-8	19	21-22	23-24	22-23
15		18	18-20	21-22	
12	6	13-17		19-20	20-21
9		9-12	15-17	16-18	17-19
6	3-5	5-8	11-14	12-15	7-16
3	2	2-4	10	9-11	4-6
1	0-1	0-1	0-9	0-8	0-3
N	57	62	61	60	64
Mean	16.89	26.98	28.97	30.32	30.28
SD	9.41	9.12	7.37	7.04	7.04

Table O-8. Norms for students in grades 3, 4, 5, 6 and 7 on the MLAT-EC Part 4 Score. Raw part scores corresponding to designated percentiles

PERCENTILE	GRADE 3	GRADE 4	GRADE 5	GRADE 6	GRADE 7
99	25	25	25	25	25
97					
95					
93	24				
90					
87					
84					
81	23				
78					
75					
72	22				
69					
66		24			
63	21				
60	20				
57	18-19				
54					
51	17	23	24	24	
48	16				
45				23	
42	14-15				24
39	13	22	23	22	
36				20-21	
33	12	20-21	22		
30	11				
27	9-10	19		19	
24	7-8		21	18	
21		17-18			
18		16	20	17	22-23
15	6	15	18-19	16	
12		13-14	17	15	20-21
9	3-5	9-12	15-16	13-14	17-19
6	2	6-8	5-14	9-12	7-16
3	1	5	2-4	7-8	4-6
1	0	0-4	0-1	0-6	0-3
N	57	62	61	60	64
Mean	15.46	20.60	21.97	21.13	23.20
SD	7.56	5.25	4.66	4.76	4.03

Appendix P – Descriptive statistics and correlations related to the listening test administered in grades 3 and 4

Figure P.1. Histogram of the listening test – grade 3..... 1
 Figure P.2. Histogram of the listening test – grade 4..... 1
 Table P.1. Descriptive statistics and correlations between MLAT-ES scores and the listening test for grade 3 and 4 2
 Table P.2. Descriptive statistics and correlations between MLAT-EC scores and the listening test for grade 3 and 4 2

Figure P.1. Histogram of the listening test – grade 3

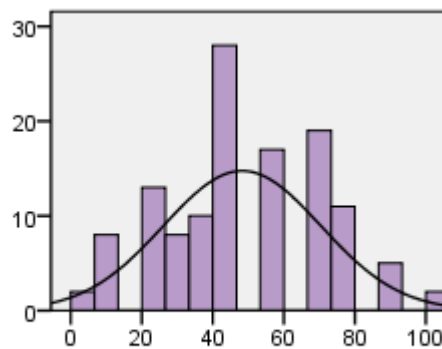
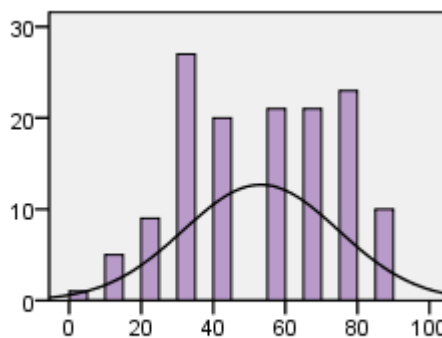


Figure P.2. Histogram of the listening test – grade 4



The mean *p*-values of the listening test were .48 for grade 3 and .53 for grade 4, which means this test was mid-difficult for both grades. While some children in grade 3 reached top marks in this test, none of the 4-graders did. Means and standard deviations are very similar in both grades (grade 3, N= 123, M=48.25, SD=22.18; grade 4, N=137, M=53.20, SD=21.54). The kurtosis values are negative in both grades

(grade 3 $K=-.511$, grade 4 $K=-.868$) but scores are positively skewed in grade 3 ($S=.076$) but negatively skewed in grade 4 ($-.126$).

The listening test does not correlate significantly with any of the parts except for Parte 3. The correlation in this grade is significant but low ($r_s=.175$, $p<.05$).

Table P.1. Descriptive statistics and correlations between MLAT-ES scores and the listening test for grade 3 and 4

Grade	N	Mean	SD	Parte 1	Parte 2	Parte 3	Parte 4	Total
3	66	46.33	21.69	.057	.191	.214	.042	.208
4	75	39.85	28.79	-.031	.005	.136	.083	.061
3 & 4	141	49.18	22.08	.067	.115	.175*	.070	.142

* Correlation is significant at 0.05 (two-tailed)

** Correlation is significant at 0.01 (two-tailed)

While *Parte 3* only correlated significantly with the listening considering grades 3 and 4 together, the MLAT-EC does correlate with the listening in some of its parts. Significant moderate correlations are found with *Part 1* in grade 4 and grouping grade 3 and 4 together, although it does not correlate significantly in grade 3. *Part 4* also seem to have some kind of significant relationship with this proficiency measure at a low-moderate level. The total score also presents a low correlation with the listening measure in grade 4 ($r_s=.290$, $p<.05$) and in grade 3 and 4 together ($r_s=.292$, $p<.001$).

Table P.2. Descriptive statistics and correlations between MLAT-EC scores and the listening test for grade 3 and 4

Grade	N	Mean	SD	Part 1	Part 2	Part 3	Part 4	Total
3	57	50.48	22.72	.225	.210	-.023	.271*	.230
4	62	55.01	20.67	.391**	-.017	.232	.311*	.290*
3 & 4	119	52.84	21.70	.330**	.123	.179	.313**	.292**

* Correlation is significant at 0.05 (two-tailed)

** Correlation is significant at 0.01 (two-tailed)

Appendix Q – Questionnaire distributed to teachers

MLAT-ES Cuestionario de Información sobre el Alumno

Maestro: Basándose en su conocimiento del alumno, proporcione la siguiente información para cada alumno que se presenta a la prueba. No es necesario contestar a las preguntas 7 y 8, a menos que disponga de la información para hacerlo. Meta esta hoja dentro del cuaderno de pruebas después que el alumno termine la prueba. Gracias.

Nombre y apellidos del alumno _____ Grado: 3 4 5 6 7

Nombre de la escuela _____

1. En términos generales, la aptitud general del alumno por las materias de la escuela es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

2. En términos generales, la aptitud del alumno para aprender una lengua extranjera es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

3. La aptitud del alumno para aprender el vocabulario de una lengua extranjera es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

4. La aptitud del alumno para aprender a hablar una lengua extranjera es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

5. La aptitud del alumno para aprender la gramática de una lengua extranjera es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

6. La habilidad del alumno para la comprensión auditiva es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

7. El conocimiento en general que el alumno dispone de una lengua extranjera es:
(ponga un círculo alrededor de un número de la siguiente escala)

1 2 3 4 5 6 7 8 9 10
insuficiente normal superior

8. En caso de que el alumno haya recibido clases de lengua extranjera durante este año, ¿qué calificación espera Ud. que obtendrá? _____

Appendix R – Descriptive statistics on the MLAT-ES and MLAT-EC according to sex

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Table R.1. Descriptive statistics *Parte 1 Palabras ocultas* (30 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	26	12.65	11.50	38.635	6.216	2	24	.421	-.887
	Girls	40	12.92	10.50	54.230	7.241	2	28	.573	-.610
4	Boys	41	21.39	22.00	33.944	5.826	8	30	-.616	-.597
	Girls	34	17.12	16.00	52.652	7.256	4	28	.056	-1.158
5	Boys	25	24.24	25.00	24.940	4.994	8	30	-1.597	3.474
	Girls	32	21.91	23.00	29.507	5.432	10	29	-.619	-.627
6	Boys	32	24.03	26.00	36.096	6.008	8	30	-1.543	1.904
	Girls	28	21.11	22.50	50.470	7.104	9	29	-.307	-1.482
7	Boys	36	27.06	28.00	7.483	2.735	19	30	-1.206	1.127
	Girls	31	26.42	28.00	13.785	3.713	17	30	-1.286	.773

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.2. Descriptive statistics *Parte 2 Palabras que se corresponden* (30 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	26	12.00	12.00	29.840	5.463	4	25	.558	-.384
	Girls	40	12.95	11.50	37.997	6.164	3	27	.428	-.760
4	Boys	41	17.88	18.00	45.560	6.750	2	29	-.315	-.786
	Girls	34	17.15	18.00	60.978	7.809	5	29	-.076	-1.405
5	Boys	25	20.64	22.00	48.990	6.999	9	30	-.222	-1.366
	Girls	32	17.06	17.00	68.512	8.277	3	30	-.084	-1.389
6	Boys	32	22.41	25.00	50.636	7.116	6	29	-1.306	.520
	Girls	28	24.39	26.00	29.210	5.405	7	30	-1.736	3.186
7	Boys	36	24.17	26.00	35.857	5.988	3	29	-2.089	4.492
	Girls	31	23.77	26.00	40.781	6.386	9	30	-1.256	.316

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.3. Descriptive statistics *Parte 3 Palabras que riman* (38 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	26	21.69	22.00	77.742	8.817	3	36	-.128	-.670
	Girls	40	22.40	23.00	96.656	9.831	6	36	-.087	-1.489
4	Boys	41	27.07	29.00	73.570	8.577	6	38	-.686	-.250
	Girls	34	23.18	20.00	101.604	10.080	5	38	-.027	-1.230
5	Boys	25	31.48	34.00	45.760	6.765	14	38	-1.159	.328
	Girls	32	26.59	31.00	94.572	9.725	6	38	-.818	-.531
6	Boys	32	31.28	35.00	62.402	7.900	8	38	-1.425	1.332
	Girls	28	31.07	35.00	60.217	7.760	15	38	-1.016	-.491
7	Boys	36	32.64	35.00	35.494	5.958	17	38	-1.504	1.398
	Girls	31	33.65	35.00	20.703	4.550	16	38	-2.186	6.634

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.4. Descriptive statistics *Parte 4 Aprendamos números (25 items)* according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	26	17.58	18.00	37.374	6.113	1	25	-.914	.892
	Girls	40	17.58	20.00	52.815	7.267	2	25	-.937	-.250
4	Boys	41	19.66	22.00	33.680	5.803	3	25	-1.382	1.237
	Girls	34	19.38	21.00	30.910	5.560	4	25	-.884	.097
5	Boys	25	23.40	24.00	5.417	2.327	15	25	-2.319	6.344
	Girls	32	18.81	21.00	41.383	6.433	2	25	-.956	-.047
6	Boys	32	23.19	24.00	9.383	3.063	10	25	-2.933	10.681
	Girls	28	22.25	23.00	14.343	3.787	11	25	-1.958	3.371
7	Boys	36	22.86	24.50	13.952	3.735	10	25	-2.177	4.124
	Girls	31	22.81	25.00	21.428	4.629	3	25	-3.245	11.513

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.5. Descriptive statistics MLAT-ES raw total score (123 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	26	63.92	63.50	322.394	17.955	31	100	.118	-.593
	Girls	40	65.85	65.50	533.054	23.088	21	114	.024	-.662
4	Boys	41	86.00	87.00	375.900	19.388	41	117	-.419	-.294
	Girls	34	76.82	76.00	597.968	24.453	24	119	-.160	-.791
5	Boys	25	99.76	102.00	255.190	15.975	63	120	-.805	.169
	Girls	32	84.38	88.00	500.887	22.381	41	118	-.291	-1.122
6	Boys	32	100.91	105.50	339.959	18.438	48	119	-1.217	1.303
	Girls	28	98.82	106.50	399.236	19.982	50	120	-.923	-.188
7	Boys	36	106.72	109.50	108.492	10.416	85	121	-.507	-.849
	Girls	31	106.65	113.00	258.837	16.088	49	122	-2.007	4.581

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.6. Descriptive statistics *Part 1 Paraules ocultes (30 items)* according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	27	12.48	11.00	60.105	7.753	0	28	.588	-.630
	Girls	30	12.27	12.00	70.547	8.399	0	27	.185	-1.022
4	Boys	26	21.77	22.00	29.385	5.421	9	30	-.544	-.090
	Girls	36	19.83	20.50	49.857	7.061	5	30	-.331	-.910
5	Boys	33	22.76	24.00	27.752	5.268	8	30	-.827	.301
	Girls	28	22.75	24.50	32.269	5.681	11	30	-.878	-.228
6	Boys	28	24.29	25.50	27.841	5.276	10	30	-1.336	1.540
	Girls	32	22.75	23.50	31.613	5.623	4	30	-1.399	2.726
7	Boys	31	24.61	26.00	24.578	4.958	10	30	-1.518	2.518
	Girls	33	25.67	27.00	22.042	4.695	11	30	-1.615	2.801

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.7. Descriptive statistics *Part 2 Paraules que es corresponen* (29 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	27	9.56	9.00	28.333	5.323	1	22	.729	.287
	Girls	30	11.17	9.50	43.316	6.581	2	29	1.029	.833
4	Boys	26	16.35	17.00	55.595	7.456	3	28	.044	-1.214
	Girls	36	14.97	13.00	46.713	6.835	6	28	.737	-.735
5	Boys	33	19.55	22.00	51.068	7.146	7	28	-.567	-1.135
	Girls	28	19.32	19.50	47.115	6.864	6	28	-.333	-1.054
6	Boys	28	19.36	21.00	50.386	7.098	7	29	-.398	-.979
	Girls	32	19.22	20.00	51.015	7.142	7	29	-.276	-1.342
7	Boys	31	19.45	21.00	50.189	7.084	7	29	-.428	-1.110
	Girls	33	23.06	26.00	37.684	6.139	6	28	-1.718	2.127

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.8. Descriptive statistics *Part 3 Paraules que rimen* (38 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	27	17.04	16.00	91.114	9.545	1	35	.322	-.514
	Girls	30	16.77	13.50	89.426	9.457	5	36	.798	-.568
4	Boys	26	28.00	29.00	59.520	7.715	10	38	-.541	-.598
	Girls	36	26.25	30.00	101.164	10.058	1	38	-1.031	.225
5	Boys	33	29.97	32.00	46.843	6.844	10	38	-1.517	2.285
	Girls	28	27.79	29.00	62.471	7.904	9	38	-.391	-.448
6	Boys	28	30.54	32.50	41.443	6.438	14	38	-1.188	.560
	Girls	32	30.12	33.00	62.306	7.893	8	38	-1.277	1.142
7	Boys	31	29.13	32.00	52.583	7.251	13	38	-.644	-.812
	Girls	33	31.36	35.00	45.864	6.772	14	38	-1.371	.712

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.9. Descriptive statistics *Part 4 Aprenguem números* (25 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn. ^a	Kurt. ^b
3	Boys	27	16.70	20.00	56.063	7.488	0	25	-.840	-.581
	Girls	30	14.33	15.00	57.333	7.572	1	25	-.077	-1.226
4	Boys	26	20.88	22.50	25.466	5.046	4	25	-1.772	3.752
	Girls	36	20.39	22.50	29.787	5.458	5	25	-1.600	1.709
5	Boys	33	22.58	24.00	16.564	4.070	5	25	-3.051	10.880
	Girls	28	21.25	23.50	27.602	5.254	1	25	-2.393	7.412
6	Boys	28	21.36	24.00	25.794	5.079	8	25	-1.512	1.598
	Girls	32	20.94	23.00	20.512	4.529	6	25	-1.363	2.134
7	Boys	31	22.74	25.00	26.131	5.112	3	25	-3.267	10.459
	Girls	33	23.64	25.00	7.051	2.655	15	25	-2.278	4.484

^aSkewn.: Skewness

^bKurt.: Kurtosis

Table R.10. Descriptive statistics MLAT-EC raw total score (122 items) according to sex

Grade	Gender	N	Mean	Median	Variance	SD	Min	Max	Skewn.^a	Kurt.^b
3	Boys	27	55.78	52.00	436.179	20.885	22	94	.262	-.689
	Girls	30	54.53	51.00	607.775	24.653	19	115	.569	-.337
4	Boys	26	87.00	86.00	397.040	19.926	51	120	.047	-.756
	Girls	36	81.44	84.00	528.940	22.999	38	115	-.329	-.914
5	Boys	33	94.85	99.00	292.258	17.096	55	117	-.606	-.557
	Girls	28	91.11	93.00	401.210	20.030	38	119	-.639	.102
6	Boys	28	95.54	98.50	258.999	16.093	67	119	-.486	-1.064
	Girls	32	93.03	96.00	342.225	18.499	49	117	-.585	-.346
7	Boys	31	95.94	97.00	365.262	19.112	41	121	-.996	.965
	Girls	33	103.73	110.00	291.580	17.076	58	118	-1.561	1.805

^aSkewn.: Skewness

^bKurt.: Kurtosis

Appendix S – Mean raw total scores across grades on the MLAT-ES (Manual) and of a preliminary study with the MLAT-ES and MLAT-EC administered in Catalonia

