

## W4 KANGOEROE Wereldwijde Wiskunde Wedstrijd

[www.w4kangoeroe.nl](http://www.w4kangoeroe.nl)

Good luck and most of  
all have fun.

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calculator not  
allowed



you may use  
50 minutes



scrap paper  
is allowed



results and awards  
at school mid-May



23th March the  
answers will be on  
the website



20th April the  
explanations will be  
on the website

wizSMART  
7 & 8 primary school and 1 & 2 vmbo,  
vmbo 3 & 4 basisberoepsgerichte leerweg



Zwijsen

[www.zwijsen.nl](http://www.zwijsen.nl)



[www.e-nemo.nl](http://www.e-nemo.nl)

getal en ruimte  
voor nu en straks  
[www.getalenruimte.epn.nl](http://www.getalenruimte.epn.nl)

TEXAS  
INSTRUMENTS  
[www.education.ti.com](http://www.education.ti.com)

keep on playing  
SMART  
GAMES  
[www.smart.be](http://www.smart.be)



[www.rekenzeker.nl](http://www.rekenzeker.nl)

Sanders  
[www.sanderspuzzelboeken.nl](http://www.sanderspuzzelboeken.nl)

Schoolsupport  
[www.schoolsupport.nl](http://www.schoolsupport.nl)

ID Premiums  
Relatiegeschenken & Promotieartikelen  
[www.idpremiums.nl](http://www.idpremiums.nl)

RU.nl  
[www.ru.nl](http://www.ru.nl)

KWVG  
Koninklijk Wiskundig Genootschap  
[www.wiskgenoot.nl](http://www.wiskgenoot.nl)

ZO?!  
ZIT DAT  
Ontdek 't zelf!  
[www.zozitdat.nl](http://www.zozitdat.nl)

Denksport  
[www.denksport.nl](http://www.denksport.nl)

CITO  
[www.cito.nl](http://www.cito.nl)

Kijk  
[www.kijk.nl](http://www.kijk.nl)

1. Emma paints the word KANGOEROE. Every day she paints one letter. She starts on Wednesday. On which day does Emma paint the last letter?



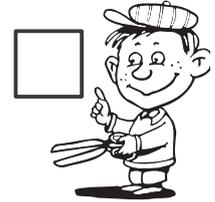
**A.** Monday      **B.** Tuesday      **C.** Wednesday      **D.** Thursday      **E.** Friday

2. Omar cycled 14 km in 30 minutes. What was his average speed in km/h?

**A.** 7      **B.** 14      **C.** 28      **D.** 56      **E.** 44

3. Carlo cuts a square in two pieces, in one go. Which shapes could these pieces have?

**A.** two squares      **B.** rectangle and triangle  
**C.** square and rectangle      **D.** two triangles  
**E.** square and triangle.



4. Sonia has to write the word WISKUNDE in the table. She may start wherever she wants to. But the next box has to border the previous box (by a side or a corner). Which table cannot be made by Sonia?

**A.**

W	I
S	E
D	K
N	U

**B.**

W	I
S	K
D	E
U	N

**C.**

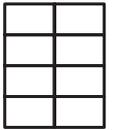
D	E
W	N
U	I
K	S

**D.**

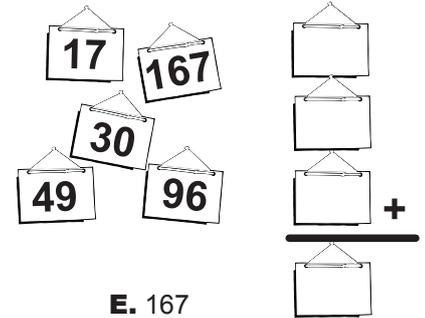
S	K
I	U
W	N
D	E

**E.**

W	E
I	D
N	S
U	K



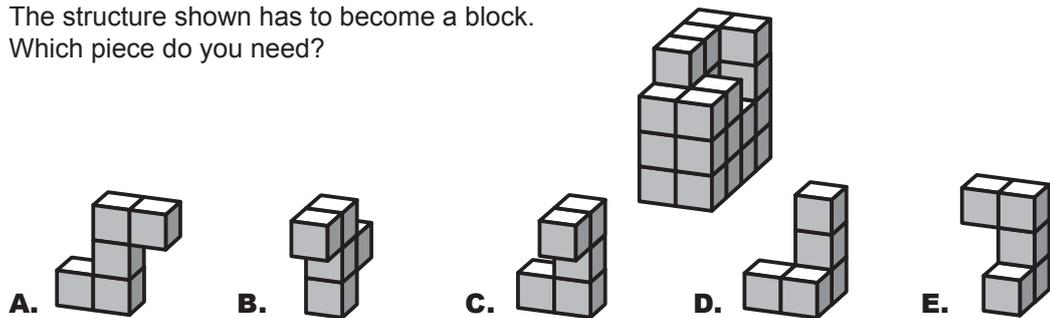
5. Sonia takes four signboards from the left and puts them to the right. She does this in such a way that the sum on the right is correct.



Which number remains on the left?

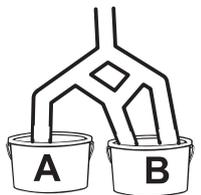
**A.** 17      **B.** 30      **C.** 49      **D.** 96      **E.** 167

6. The structure shown has to become a block. Which piece do you need?

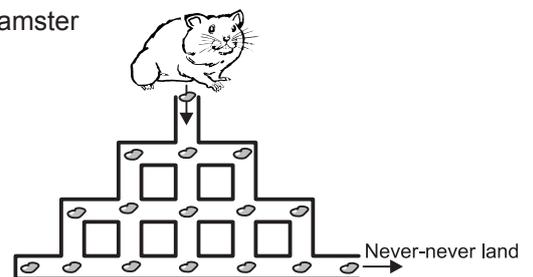


7. Emma pours 60 litres of water in the top tube. At every fork the same amount of water flows each way. How many litres of water end up in tub B?

**A.** 30      **B.** 35      **C.** 40      **D.** 45      **E.** 50



8. A hamster walks through tunnels to Never-never land. The hamster doesn't walk through the same tunnel twice and does not pass the same crossing twice. There are 16 nuts; see picture.



What is the largest number of nuts the hamster can eat?

**A.** 11      **B.** 12      **C.** 13      **D.** 14      **E.** 15

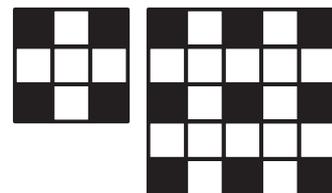
9. If cat Minny lazes all day, she drinks 60 ml of milk. If she catches mice, she drinks one third more milk. Over the past two weeks she has been catching mice on the Saturdays and Sundays. How much ml of milk did cat Minny drink over the past two weeks?

- A. 440      B. 840      C. 920      D. 1040      E. 1120

10. In Omar's street there are only houses on one side. They all have odd numbers. The first house has number 1. The houses with a digit 3 in their house numbers all have a front garden; the others don't have one. Omar lives in the fifteenth house without a garden. What is the number of Omar's house?

- A. 29      B. 41      C. 45      D. 47      E. 49

11. A square tiled floor is made of white and black tiles. In the picture you see floors with 4 and with 9 black tiles. There is a black tile on every corner. Around each black tile there are only white tiles. How many white tiles do you need for a floor with 16 black tiles?

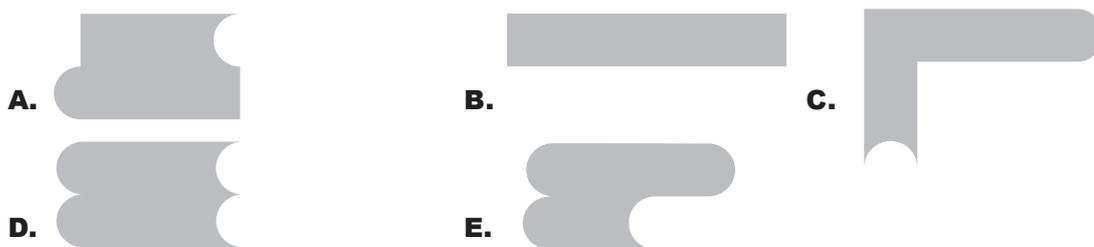


- A. 25      B. 33      C. 36      D. 49      E. 64

12. Carlo puts the four cardboard pieces together.



Which shape is impossible to get?



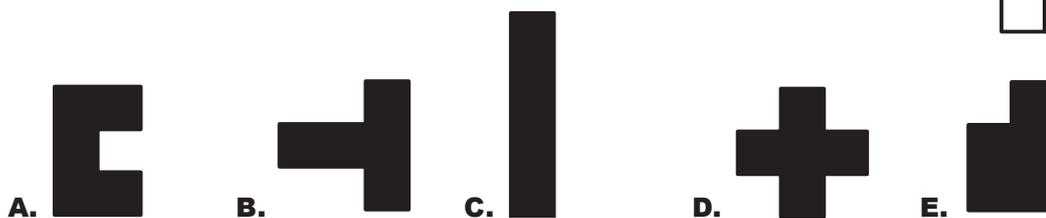
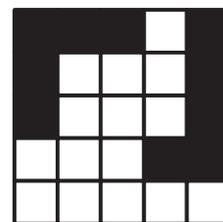
13. Omar wanted to multiply a number by 201. But instead he multiplied it by 21. His answer was 420. What should his answer have been?

- A. 2010      B. 4002      C. 4020      D. 4200      E. 40200

14. In a football tournament Omar's club scored three goals to one. The club won one match, drew one and lost one as well. What was the score of the match that was won?

- A. 1-0      B. 2-0      C. 2-1      D. 3-0      E. 3-1

15. Emma and Omar are playing a game. Taking turns they put a black piece on the board, neatly on the boxes. Each piece may be placed on each open spot. Right now there are two pieces on the board. There are still five pieces left and it is Emma's turn. If she puts the right piece on the board, she will win, because then Omar can't place another piece. Which piece should Emma put on the board?



16. There are 10 pupils in a class. The teacher has 80 sweets. She gives each girl the same number of sweets and she has three sweets left over. How many boys are in the class?

- A. 1      B. 2      C. 3      D. 5      E. 7

