

## W4 KANGOEROE Wereldwijde Wiskunde Wedstrijd

Good luck and most of  
all have fun.

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

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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



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.getalenuimte.epn.nl](http://www.getalenuimte.epn.nl)



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



[www.smart.be](http://www.smart.be)



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



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



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



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



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



Koninklijk Wiskundig Genootschap

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



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



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

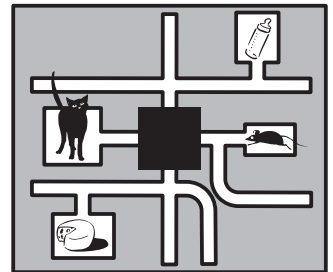


[www.cito.nl](http://www.cito.nl)



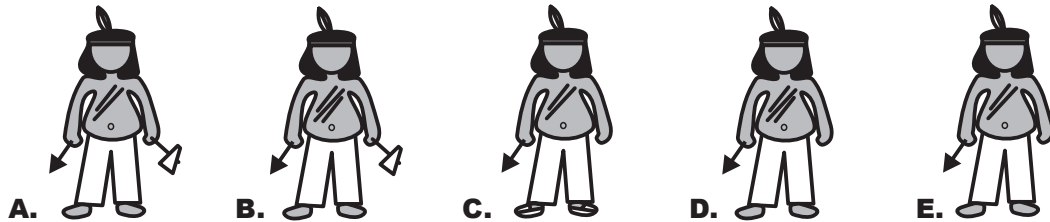
[www.kijk.nl](http://www.kijk.nl)

1. In the drawing you see a maze with a cat and a mouse.  
The cat wants to go to the milk and the mouse wants to go to the cheese.  
Cat and mouse should not meet each other.  
What does the hidden part of the maze look like?



- A. B. C. D. E.

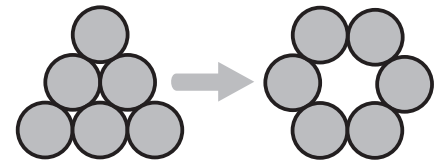
2. White Cheetah has an arrow, no axes and no shoes on.  
White Cheetah has two stripes painted on his chest.  
Which picture shows White Cheetah?



3. In a restaurant a starter costs 4 euros, a main course 9 euros and a dessert 5 euros.  
A special children's menu costs 15 euros.  
By how much is a children's menu cheaper than a starter, a main course and a dessert together?

- A. € 3 B. € 4 C. € 5 D. € 6 E. € 7

4. Six coins are placed in a triangle.  
By moving some coins you can make a circle,  
see the picture alongside.  
How many coins do you have to move at least?



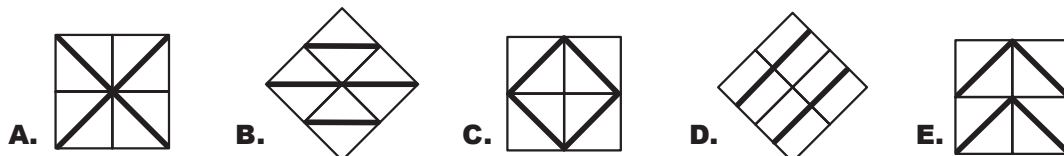
- A. 1 B. 2 C. 3 D. 4 E. 5

5. Caterpillar Lisa has 100 feet. Yesterday she bought 32 new shoes. Yet Lisa still has 14 naked feet.  
How many shoes was Lisa wearing *before* she went shopping?

- A. 27 B. 40 C. 54 D. 68 E. 86

6. We are only allowed to use tiles like to tile a floor.

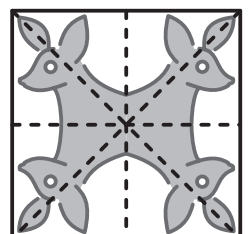
Which floor cannot be made with these tiles?



7. Four friends have been eating ice cream. Mohammed ate more than Freddy.  
Juri ate more than Victor. Juri ate less than Freddy. Put all friends from greatest to smallest eater.  
What is the right order?

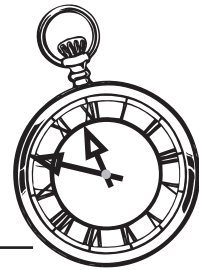
- A. Mohammed, Juri, Victor, Freddy  
B. Victor, Mohammed, Freddy, Juri  
C. Mohammed, Freddy, Juri, Victor  
D. Juri, Victor, Mohammed, Freddy  
E. Juri, Mohammed, Victor, Freddy

8. Lisa folds a paper in two and unfolds again.  
She does that four times.  
The dotted lines in the drawing are the folding lines.  
How many times did the kangaroos lay exactly on top of each other after folding?



- A. 0 B. 1 C. 2 D. 3 E. 4

9. At ten to twelve the lesson started that lasted 40 minutes. Exactly halfway through the lesson a bird suddenly flew into the class. At what time did this happen?



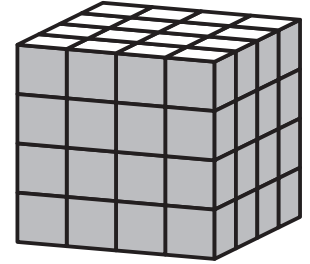
- A. half past eleven B. twelve o'clock C. ten past twelve  
D. half past twelve E. twenty past twelve

10. Tony and Lisa live in an apartment. Lisa lives 12 floors higher than Tony. One day Tony visits Lisa. He takes the stairs. When he was halfway, he was on the eighth floor. On which floor does Lisa live?



- A. 2nd B. 14th C. 16th D. 20th E. 24th

11. A big block is made out of 64 little white blocks. Five faces of the big block are painted grey. How many little blocks have three grey sides?



- A. 4 B. 8 C. 16 D. 20 E. 24

12. One day a boat crosses a river 5 times. The boat can take 10 sheep or 6 cows at once. Every time the boat is full. In total 42 animals cross the river by the boat. How many sheep are being taken to the other side by the boat?

- A. 10 B. 12 C. 20 D. 22 E. 30

13. Teacher René puts a rope on the floor. Children measure the length of the rope by steps. Anna takes 15 equal steps, Betty 12, Dennis 14 and Yve 17. Who takes the longest steps?

- A. Anna B. Betty C. Dennis D. Yve E. You cannot tell

14. There are seven blocks in a box. By sliding the blocks you can make room for another block. How many blocks in the box do you have to slide at least?



- A. 1 B. 2 C. 3 D. 4 E. 5

15. Lisa starts a chain letter. She sends the letter to her friends Tony and Charles. Tony and Charles have to send the letter to 2 other people. These people also send the letter to 2 other people. After 2 times  $2 + 4 = 6$  people in total got the letter. How many people in total got the letter after 4 times?

- A. 15 B. 16 C. 30 D. 32 E. 62

16. Tony adds the top row of numbers. Lisa adds the bottom row of numbers. Both of them get the same answer.

1	2	3	4	5	6	7	8	9	10	199
11	12	13	14	15	16	17	18	19	20	*

What is the number at the asterisk?

- A. 99 B. 100 C. 209 D. 289 E. 299

