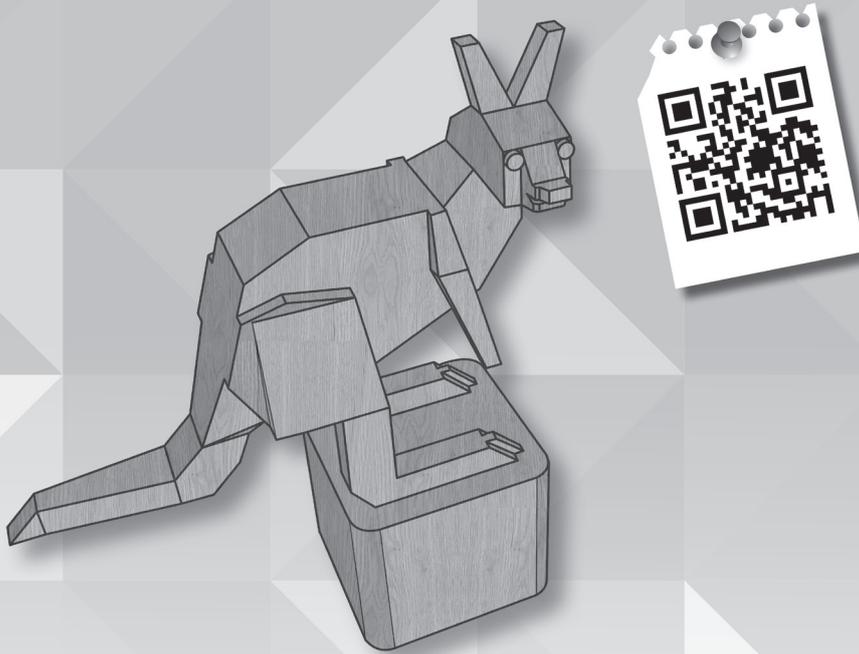


# WereldWijde WiskundeWedstrijd W4Kangoeroe

COMPETITION PERIOD  
MARCH 19 TO 27

WWW.W4KANGOEROE.NL



## GOOD LUCK AND MOST OF ALL HAVE FUN!

© Stichting Wiskunde Kangoeroe



calculators are not allowed



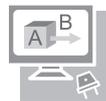
only a pencil, an eraser and scribbling paper are allowed



answers will be posted on the website about April 4<sup>th</sup>



30 minutes for 12 questions (group 3)  
60 minutes for 24 questions (group 4)  
results and prizes will arrive at school at the end of May



solutions will be posted on the website about April 20<sup>th</sup>

wizFUN  
group 3 & 4 primary school



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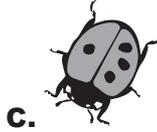
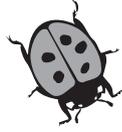
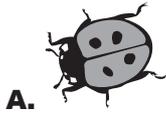
www.platformwiskunde.nl



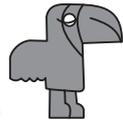
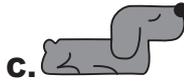
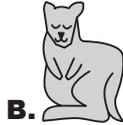
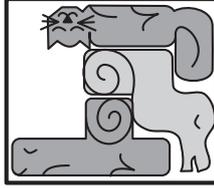
1. On the right, you can see a ladybird.



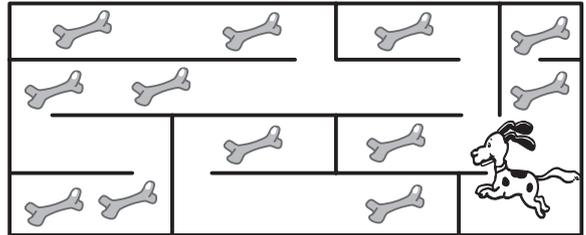
In which picture can you see the same ladybird?



2. Which piece completes the puzzle?



3. The dog is running through the maze.



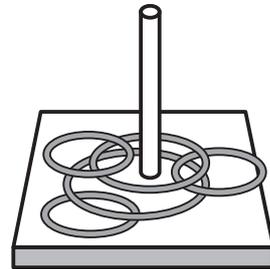
How many bones can the dog grab in total?

- A. 8      B. 9      C. 10      D. 11      E. 12
4. *Anne's* friends are coming to visit.  
They take off their shoes.  
The friends' shoes are in the picture.



How many friends are coming to visit?

- A. 6      B. 7      C. 8      D. 12      E. 14
5. *Maria* is throwing rings.  
She gets 3 points for every ring that lands on the stick.

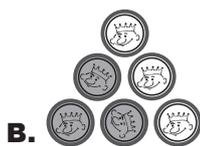


How many points does *Maria* get?

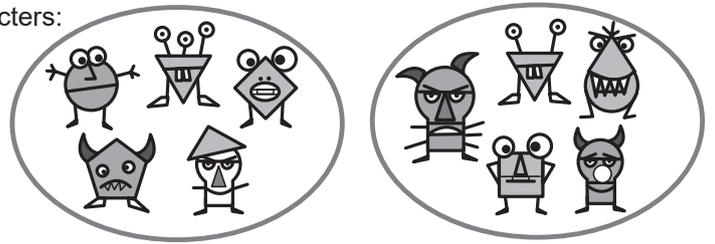
- A. 3      B. 6      C. 9      D. 12      E. 15
6. *Bernard* puts 6 coins on the table.  
Each coin is grey on one side and white on the other.  
*Bernard* flips each coin.



What does he see now?



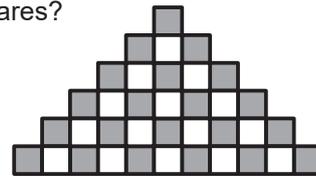
7. There are 2 different families of fantasy characters:



Which group only has fantasy characters from 1 family?

- A. B. C. D. E.

8. How many more grey squares are there than white squares?



- A. 4      B. 5      C. 6      D. 7      E. 8

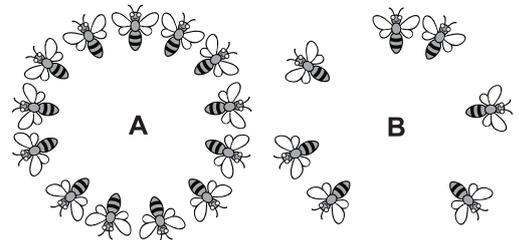
9. Abigail writes the first 3 letters of the alphabet on the window. She also draws a heart.



What do you see on the other side of the window?

- A. A B C ♥      B. ♥ B C A      C. ♥ C B A  
D. C B A ♥      E. ♥ C B A

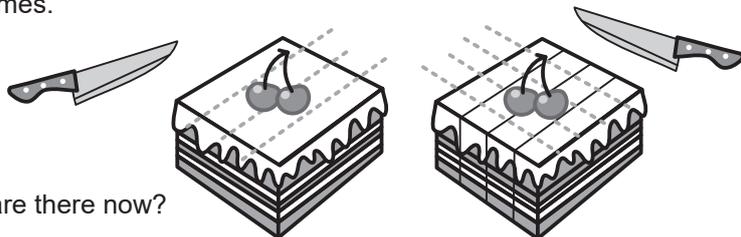
10. There must be the same number of bees in both circles.



How many bees need to move from circle A to circle B?

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

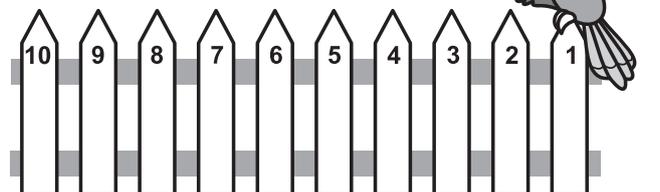
11. Grandma cuts the cake 3 times. Then she turns the cake. She cuts it 4 more times.



How many pieces of cake are there now?

- A. 12      B. 16      C. 18      D. 20      E. 21

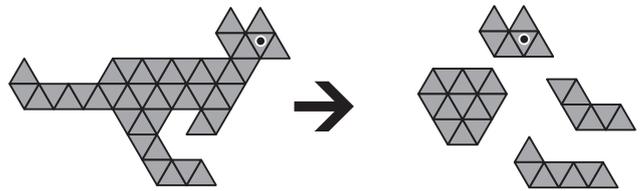
12. The parrot jumps from one pole to the next in 2 seconds. The parrot wants to jump from the first pole to the tenth pole. It jumps from pole to pole.



How many seconds does it take the parrot to reach the tenth pole?

- A. 10      B. 16      C. 18      D. 20      E. 22

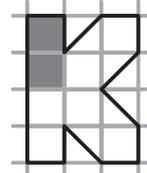
13. The kangaroo puzzle breaks into 5 pieces.  
1 of the pieces is missing.



Which piece is missing?



14. *Billy the Beaver* is painting a K.  
He has already used 1 pot of paint.



How many more pots of paint does he need to finish the K?

- A. 2      B. 3      C. 4      D. 5      E. 6

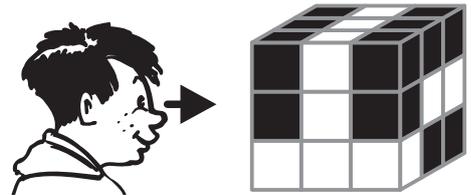
15. *Sabine* has 3 books.  
Book 2 has 30 pages.  
Book 2 has 4 pages more than book 3.  
Book 2 has 7 pages more than book 1.



How many pages does book 1 have less than book 3?

- A. 3      B. 4      C. 7      D. 10      E. 11

16. The cube has 18 black blocks.  
The cube has 9 white blocks.  
*Daniel* looks at the cube from the side of the arrow.



What does *Daniel* see?



17. *Filip* has built 6 towers with black and grey blocks.  
Each tower consists of 5 blocks.  
Blocks of the same colour are not allowed to touch each other.



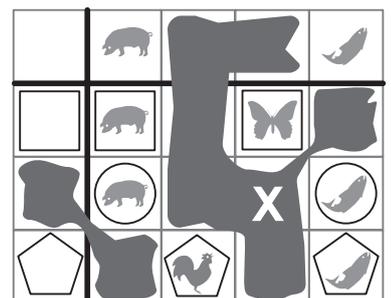
From above, the towers look like this:



How many grey blocks did *Philip* use in total?

- A. 10      B. 12      C. 15      D. 16      E. 20

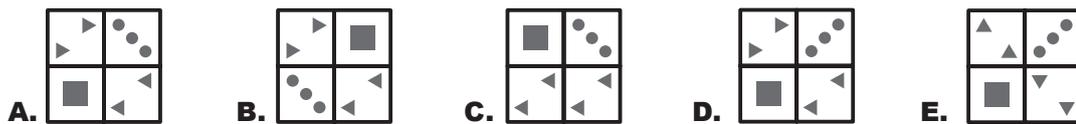
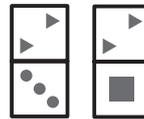
18. *Frank* has made a large table.  
At the top are animals and on the left are shapes.  
In each cell, *Frank* draws the animal he sees at the top in the shape he sees on the left.  
*Frank* has spilled ink on a number of cells.



Which picture is hidden under the X?



19. Which picture **cannot** be made with these 2 tiles?

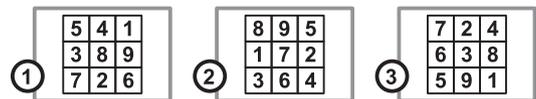


20. *Ania* is making a bracelet.  
 She is clicking beads onto a string.  
 First, she clicks 2 white beads onto the left side of the string.  
 Then she clicks 1 black bead onto the left side of the string.  
 Then she clicks 2 black beads onto the right side.  
 Then she clicks 2 white beads onto the left side.  
 Then she clicks 1 white bead onto the right side.  
 And then she clicks 1 more black bead onto the left side.  
 Now *Ania* is finished.

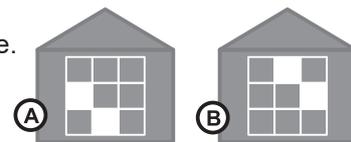
Which picture shows *Ania's* bracelet?



21. *Ranim* has 3 cards (1, 2 and 3).  
*Ranim* also has 2 envelopes (A and B).



She puts 1 card in each envelope.  
 She sees 2 numbers through the windows of each envelope.  
 She adds up the 4 visible numbers.  
 The result is 26.



Which cards did *Ranim* put in each envelope?

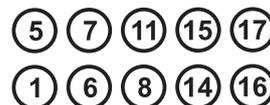
- A. Card 1 in envelop A; Card 3 in envelop B
- B. Card 2 in envelop A; Card 1 in envelop B
- C. Card 2 in envelop A; Card 3 in envelop B
- D. Card 3 in envelop A; Card 1 in envelop B
- E. Card 3 in envelop A; Card 2 in envelop B

22. *Arek*, *Darek* and *Marek* went to the gym.  
 They arrived at different times.  
*Arek* says, 'I arrived first.'  
*Marek* said, 'I arrived before *Arek*.'  
 Both boys are lying.

In what order did the boys arrive at the gym?

- A. *Arek* then *Marek* then *Darek*
- B. *Marek* then *Darek* then *Arek*
- C. *Darek* then *Marek* then *Arek*
- D. *Marek* dan *Arek* then *Darek*
- E. *Darek* then *Arek* then *Marek*

23. *Martina* arranges 10 numbers in 2 rows:



She adds up the numbers in both rows.  
 Now she does not get the same answer in both rows.  
 By swapping a number from the first row with a number from the second row, she can get the same answer.

Which number from the first row should she swap?

- A. 5
- B. 7
- C. 11
- D. 15
- E. 17

24. In *Istanbul*, a man has 7 children.  
 One of the girls is called *Stella*.  
 One of the boys is called *Achmed*.  
*Stella* has twice as many brothers as *Achmed* has brothers.

How many sisters does *Stella* have?

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