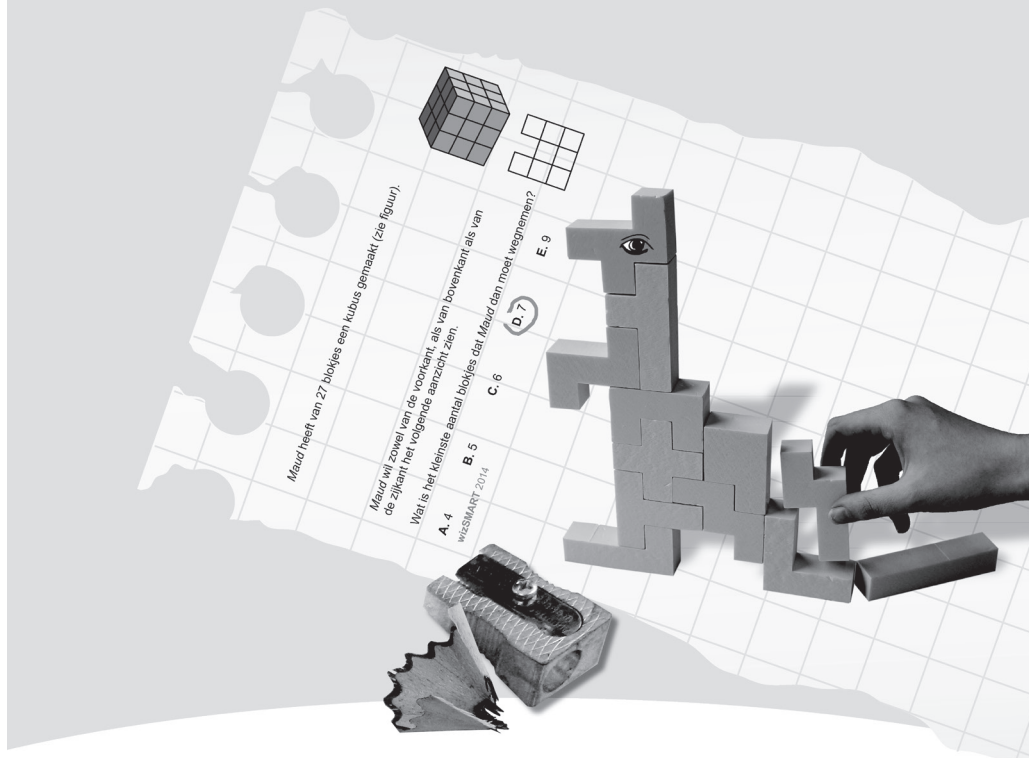




WERELDWIJDE WISKUNDEWEDSTRIJD W4KANGOEROE

THURSDAY MARCH 17TH 2016

WWW.W4KANGOEROE.NL



Good luck and most of all have fun.

© Stichting Wiskunde Kangoeroe



calculators are not allowed



you may use 50 minutes



only a pencil, an eraser and scribbling paper are allowed



results and prizes will arrive at school medio May



answers will be posted on the website March 26th



solutions will be posted on the website April 22th

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group 5 & 6 primary school

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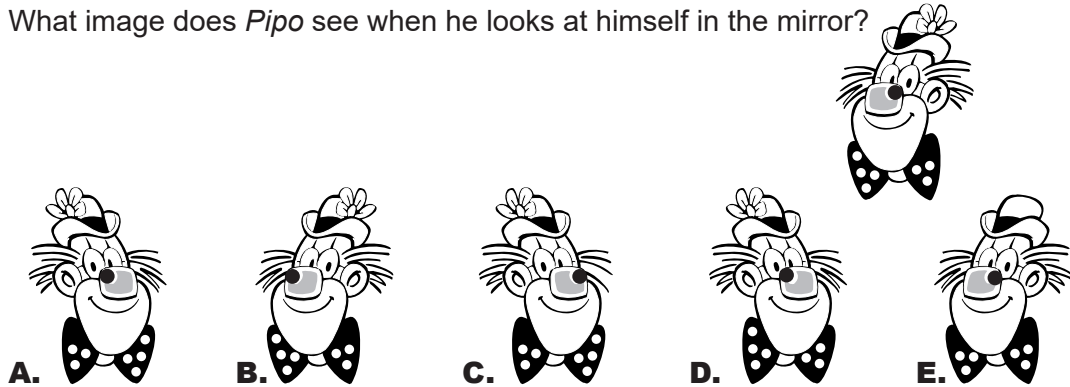
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7. *Anna* divides some apples between herself and 5 friends. Everyone gets half of an apple.

How many apples does *Anna* share?

- A.** 2 and a half **B.** 3 **C.** 4 **D.** 5 **E.** 6

8. What image does *Pipo* see when he looks at himself in the mirror?

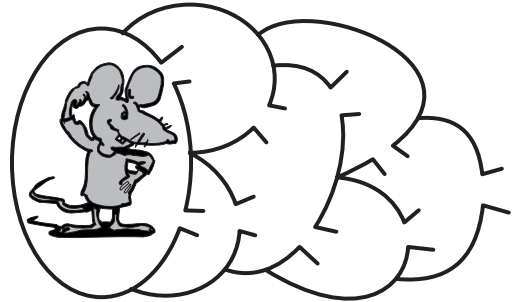


9. Take the digits of the year 2016 and add them. You get $2+0+1+6 = 9$.

What is the first year, after 2016, in which the sum of the digits of the year is equal to 9 again?

- A.** 2007 **B.** 2024 **C.** 2025 **D.** 2034 **E.** 2106

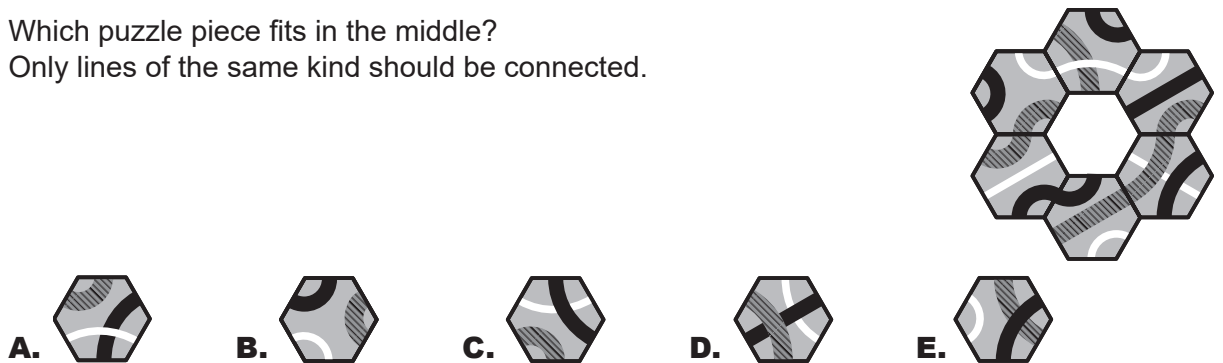
10. The mouse wants to escape from the maze without passing through the same gate more than once.



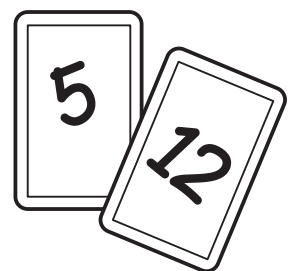
How many different paths can the mouse choose?

- A.** 2 **B.** 4 **C.** 5 **D.** 6 **E.** 7

11. Which puzzle piece fits in the middle?
Only lines of the same kind should be connected.



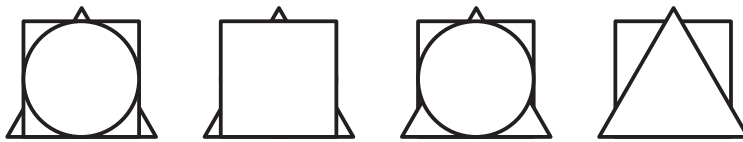
12. *Farid* has 2 cards as shown in the picture. He writes a number on the back of each card. He adds the two numbers on the first card. He does the same with the second card. The results are the same. The sum of the four numbers is 32.



What could be the 2 numbers on the back sides of these cards?

- A.** 7 and 0 **B.** 8 and 1 **C.** 8 and 7 **D.** 9 and 2 **E.** 11 and 4

- 13.** 4 children each have a paper square, a paper triangle and a paper circle. Each child puts his own shapes on top of each other, as shown in the pictures.



How many children placed the triangle on top of the square?

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

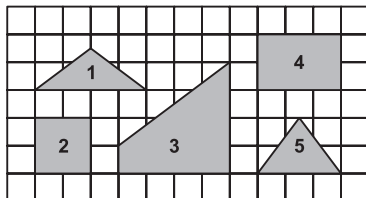
- 14.** Loes writes some numbers in the table. From left to right and from top to bottom she uses the numbers 1, 2 and 3 exactly once.

1		
	2	

What is the sum of the numbers in the two shaded squares?

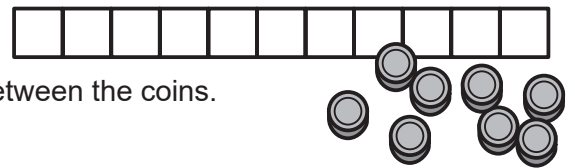
- A.** 2 **B.** 3 **C.** 4 **D.** 5 **E.** 6

- 15.** Which 3 of the 5 jigsaw pieces shown can be joined together to form a square?



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

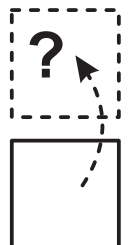
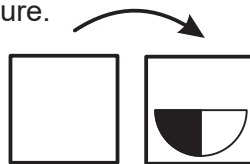
- 16.** John has a board with 11 squares. On 8 of them he puts 1 coin. He's not allowed to have any empty squares between the coins.



What is the maximum number of squares of which one cannot be sure if there is a coin?

- A.** 3 **B.** 5 **C.** 6 **D.** 8 **E.** 11

- 17.** Sophie has a card with a picture on the back. She turns the card over around its right side. She sees the next picture.



What picture will Sophie see when she turns the card over around its upper side?

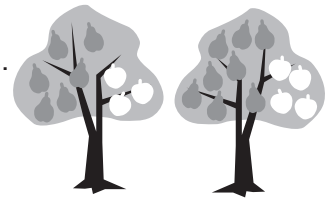
- A.** **B.** **C.** **D.** **E.**

- 18.** Tim, Tom and Jim are triplets. So they have the same age and were born on the same day. Their brother Paul is exactly 3 years older. Their mother adds correctly the ages of all 4 brothers.

Which of the following numbers can she get?

- A.** 21 **B.** 24 **C.** 27 **D.** 29 **E.** 30

19. In a magic garden magic trees grow. Each tree contains either 6 pears and 3 apples or 8 pears and 4 apples. There are 25 apples in the garden.



How many pears are there in the garden?

- A. 35 B. 40 C. 45 D. 50 E. 56

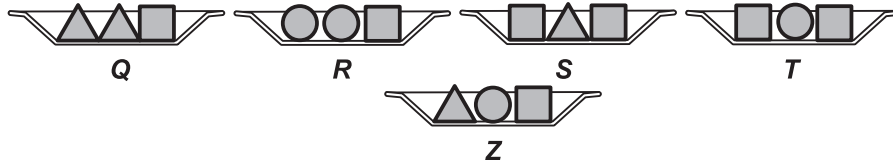
20. My dogs together have 18 more legs than noses.



How many dogs do I have?

- A. 3 B. 4 C. 5 D. 6 E. 7

21. Karin wants to place 5 bowls on a table in order of their weight.

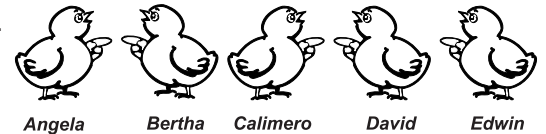


She has already placed Q, R, S and T in order. Bowl T weighs the most.

Where should she place bowl Z?

- A. to the left of bowl Q B. between bowl Q and R
 C. between bowl R and S D. between bowl S and T
 E. to the right of bowl T

22. 5 sparrows sit on a branch, as shown in the picture.



Each sparrow chirps the same number of times as the number of sparrows it sees. For example, David chirps 3 times. Then, 1 sparrow turns to look in the opposite direction. Again, each of the sparrows chirps the same number of times as the number of sparrows it sees. This time, the total number of chirps is more than the first time.

Which of the sparrows did turn around to look in the opposite direction?

- A. Angela B. Bertha C. Calimero D. David E. Edwin

23. Rosalie adds 7 numbers and gets 2016. 1 of these numbers is 201. She replaces the number 201 with 102.

What will now be the sum of the numbers?

- A. 1815 B. 1914 C. 1917 D. 2115 E. 2118

24. Maarten has built a bar of 27 bricks.



He breaks the bar into 2 bars such that one of these is twice the length of the other. Then he takes 1 of the new bars and breaks it the same way. He continues to do so a few times.

Which of the following bars will he not be able to get?

- A. 2 stones B. 4 stones C. 6 stones D. 8 stones E. 10 stones