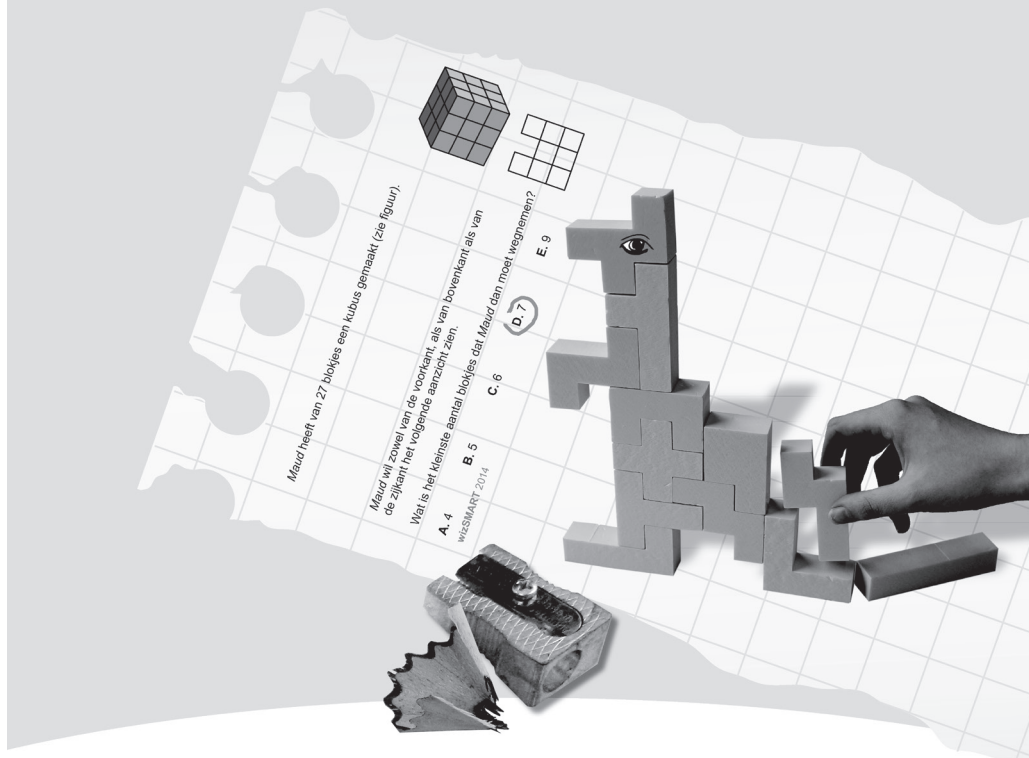




WERELDWIJDE WISKUNDEWEDSTRIJD W4KANGOEROE

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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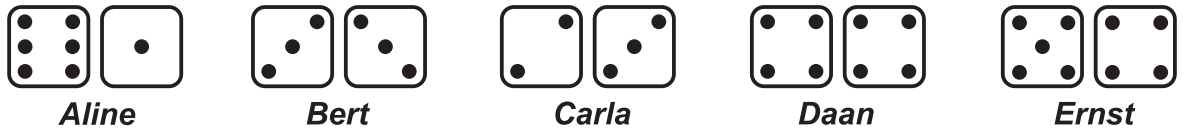
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1. *Aline, Bert, Carla, Daan en Ernst* each rolled 2 dice and added the number of dots.



Who has the most dots?

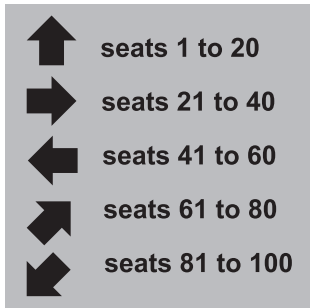
- A.** *Aline* **B.** *Bert* **C.** *Carla* **D.** *Daan* **E.** *Ernst*

2. Little *Kanga* is 7 weeks and 2 days old.

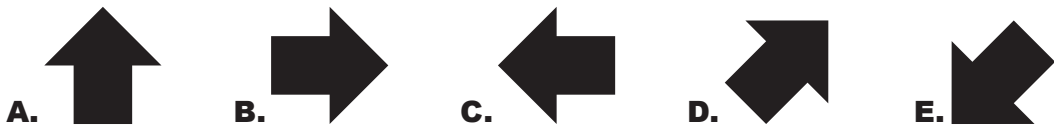
In how many days will *Kanga* be 8 weeks old?

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

3. *Nathalie* goes to a circus with her father. Their seats are numbered 71 and 72.

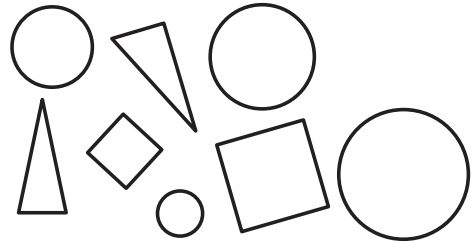


Which way should they go?

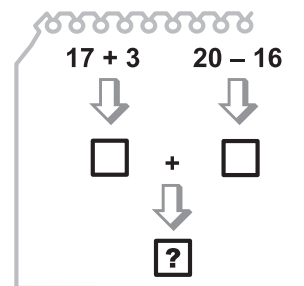


4. What do you see?

- A.** there are as many circles as squares
B. there are fewer circles than triangles
C. there are twice as many circles as triangles
D. there are more squares than triangles
E. there are 2 more triangles than circles

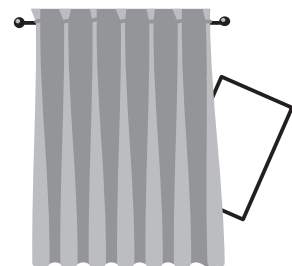


5. Which number should be written in the box with the question mark?



- A.** 24 **B.** 28 **C.** 36 **D.** 56 **E.** 80

6. A rectangle is partly hidden behind a curtain.



What shape is the hidden part?

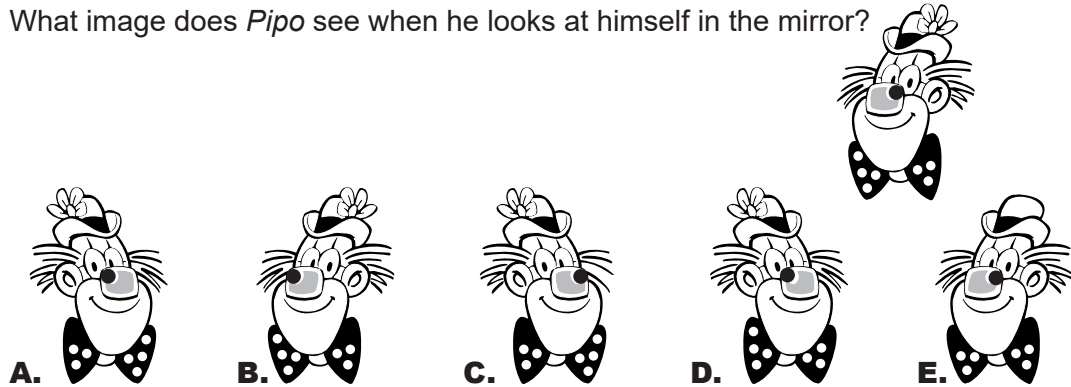
- A.** a triangle **B.** a square **C.** a hexagon
D. a circle **E.** a rectangle

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

How many apples does *Anna* divide?

- 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?

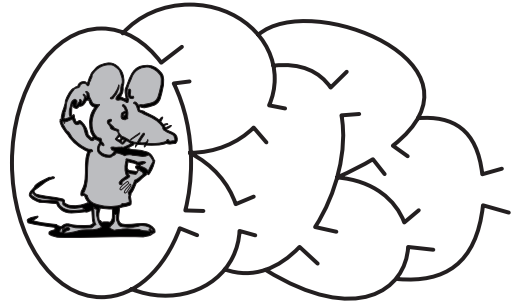


9. Take the digits of the year 2016 and add them. You get $2+0+1+6 = 9$.

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

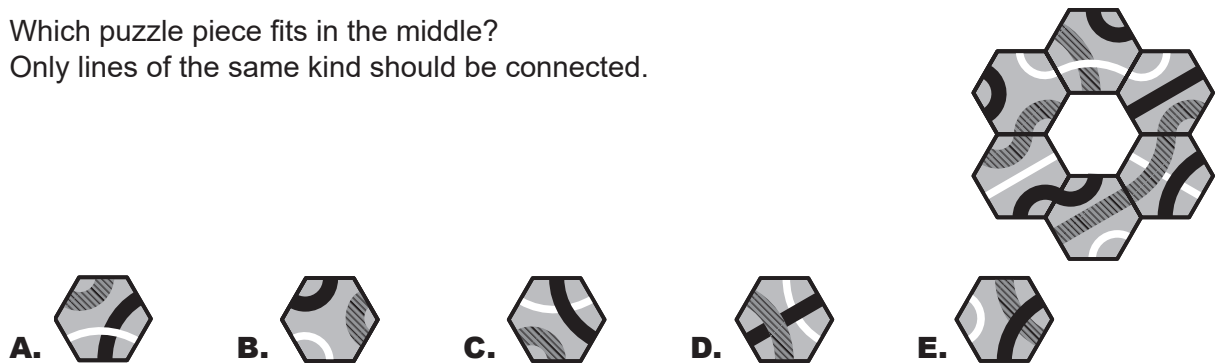
10. The mouse wants to escape from the maze without passing through the same gate more than once.



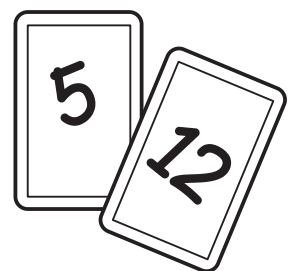
How many different paths can the mouse choose?

- 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.



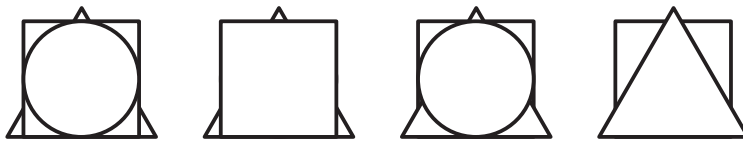
12. *Farid* has 2 cards as shown in the picture. He writes a number on the back of each card. He adds the 2 numbers on the first card. He does the same with the second card. The results are the same. The sum of the 4 numbers is 32.



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

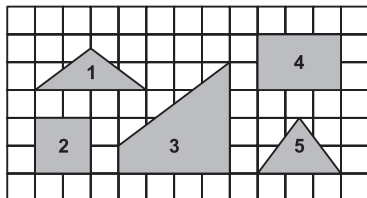
- 14.** *Loes* writes some numbers in the table. From left to right and from top to bottom she uses the numbers 1, 2 and 3 exactly once.

1		
	2	

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

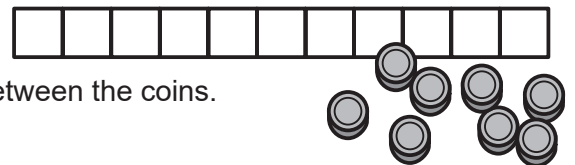
- A.** 2 **B.** 3 **C.** 4 **D.** 5 **E.** 6

- 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

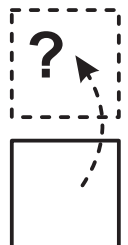
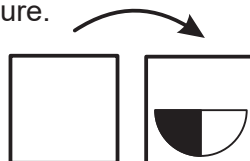
- 16.** *John* has a board with 11 squares. On 8 of them he puts 1 coin. He's not allowed to have any empty squares between the coins.



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

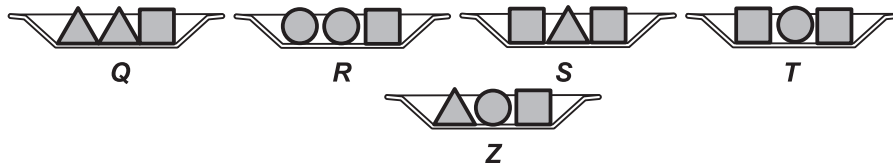
20. My dogs together have 18 more legs than noses.

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.

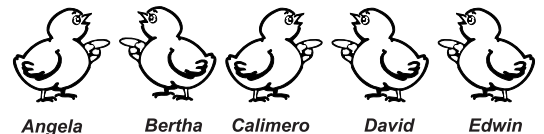


She has already placed Q, R, S and T in order. Bowl T weighs the most.

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