wizFUN 2022

WereldWijde WiskundeWedstrijd

W4Kangoeroe

WWW.W4KANGOEROE.NL

THURSDAY MARCH 17TH 2022

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Good luck and most of all have fun.!

calculators are not allowed

only a pencil, an eraser and scribbling paper are allowed

answers will be posted on the website about March 29th

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
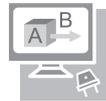
solutions will be posted on the website about April 20th

wizFUN
group 3 & 4 primary school

1. Which picture has the most triangles?

A. B. C. D. E.
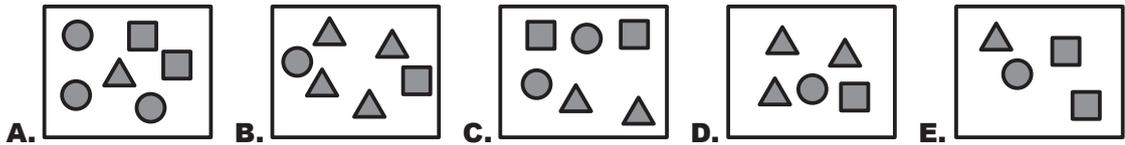
2. *Simon* cuts the picture of the mushroom into 2 pieces.
He glues the 2 pieces together.
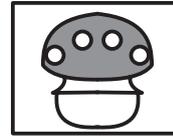
Which picture can he get?

A. B. C. D. E.
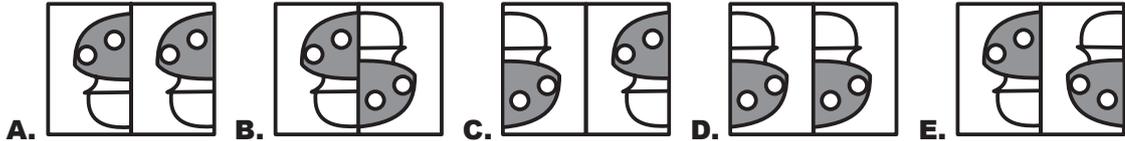
3. 1 sandwich and 1 juice cost 12 euro all together.
1 sandwich and 2 juices cost 14 euro all together.

How much does 1 juice cost?

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

4. Which piece did the pirate tear off this map?

A.

B.

C.

D.

E.

5. *Nassim* is doing a puzzle.
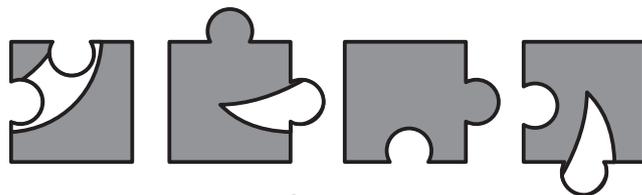
What does the puzzle look like when it is put together?

A. B. C. D. E.

6. The picture shows 5 bricks, which are exactly the same.
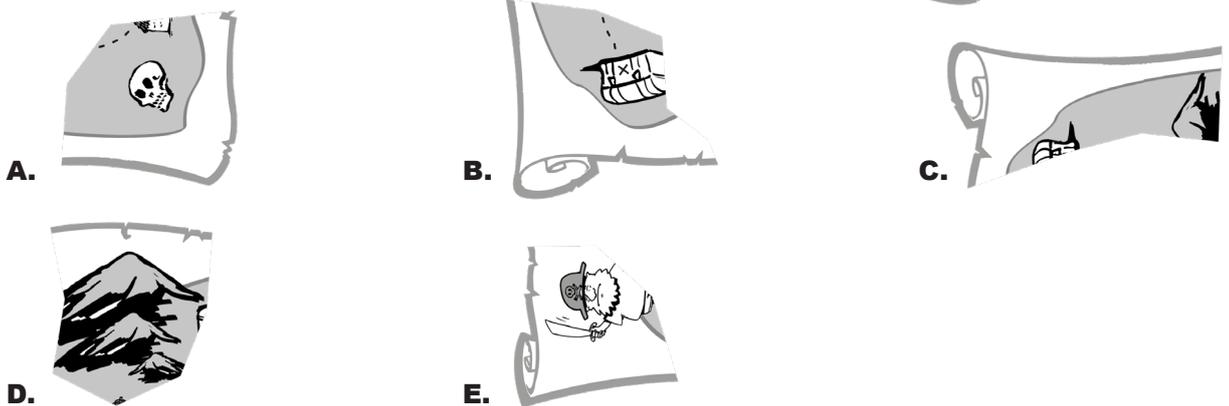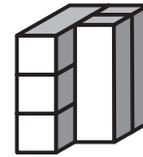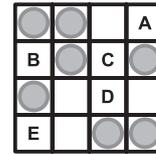

How many of them are touching exactly 3 other bricks?

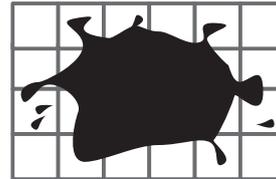**A.** 1   **B.** 2   **C.** 3   **D.** 4   **E.** 5

7. *Silke* has placed 8 coins in this grid.
There are 2 coins in each row from left to right.
There are also 2 coins in each column from top to bottom.

In which box must there be another coin?

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

8. How many squares was ink spilled on?

A. 16   **B.** 17   **C.** 18   **D.** 19   **E.** 20

9. *Noure* writes down a five-digit number.
She covers each digit with a shape.
The same digits are covered by the same shape.
Different digits are covered by different shapes.

Which number could be underneath these shapes?

A. 32446   **B.** 34423   **C.** 34424   **D.** 34426   **E.** 34526

10. An animal sleeps in each of the pet beds.
The beds for the cat and the dog are exactly the same.
The panda and kangaroo beds have the same sticker.

bed 1   **bed 2**   **bed 3**   **bed 4**   **bed 5**

In which bed does the guinea pig sleep?

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

11. The kangaroo wants to jump to the cross.
The kangaroo does not want to go through the water.
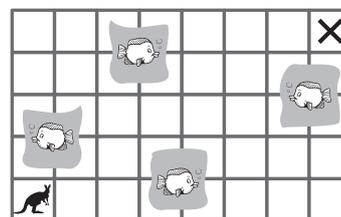
How can the kangaroo jump?

A.

B.

C.

D.

E.

12. You want to use a stamp that looks like this:

What do you see on the paper after you use it?

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

13. *Sterre* looks at the stack from above.

What does she see?

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

14. The pictures below are made with all kinds of shapes, such as triangles and squares.
In 1 of the pictures below, a shape is used that doesn't appear in any of the other pictures.

Which picture is it?

A. **B.** **C.** **D.** **E.**
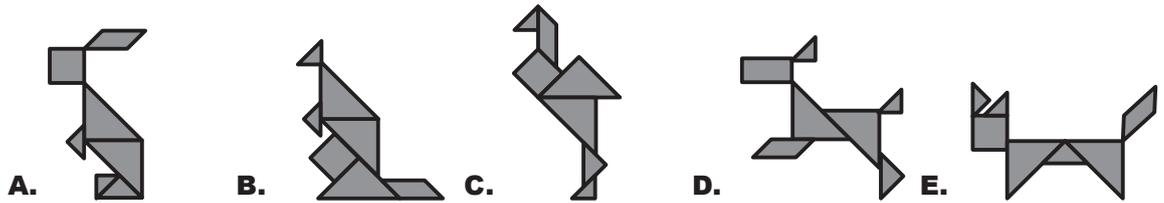
15. *Karin* makes square gardens.
She uses long tiles for the paths around them that look like this.

3

5

7

?
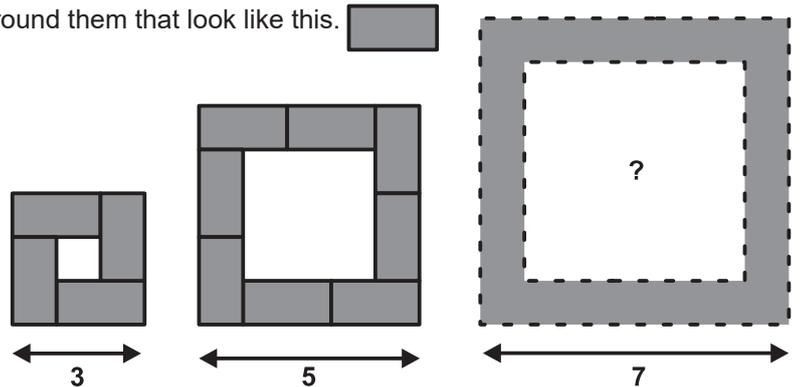
How many tiles does she need for the largest garden?

A. 10 **B.** 11 **C.** 12 **D.** 14 **E.** 16

16. *Anna* is going to stick these stickers on top of each other.
She sticks the star after she sticks the square.
And she sticks the star before she sticks the triangle.
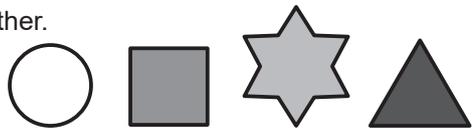
What do the stickers look like?

A. **B.** **C.** **D.** **E.**
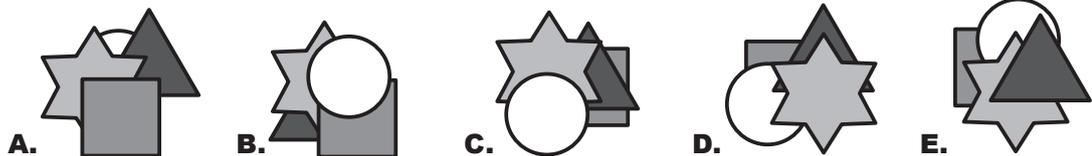
17. These are two houses.
Around each house are five circles with numbers in them.
Some numbers are missing.
When you add up the numbers around each house, you get 20.

6   3

2   ?

5   1
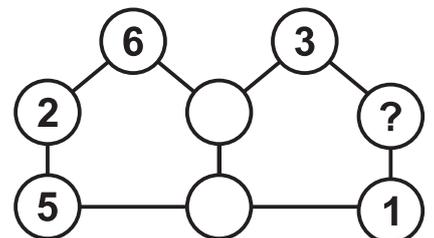
Which number must be on the question mark?

A. 3 **B.** 4 **C.** 7 **D.** 9 **E.** 14

18. Which of the following lawns has the least grass?

A.

B.

C.

D.

E.

19. *Maria* just turned 6 years old.
When she turned 1 she got 1 teddy bear.
When she turned 2 she got 2 teddy bears.
Every birthday she received the same number of teddy bears as her age.

How many teddy bears has *Maria* received on all her birthdays put together?

A. 19 **B.** 20 **C.** 21 **D.** 22 **E.** 23

20. *Dino* walks from the entrance to the exit.
He may enter each room only once.
He adds up all the numbers he passes along the way.

What is the biggest number *Dino* can get?

A. 27 **B.** 29 **C.** 32 **D.** 34 **E.** 36

21. In this puzzle the same shapes represent the same numbers.
If the shapes are different, then the numbers are also different.
The numbers in each row and column are added together, following to the arrows.
The answers are written next to each row and below each column.

Which number belongs where the question mark is?

A. 10 **B.** 12 **C.** 14 **D.** 16 **E.** 18

22. 3 zebras are having a competition. The zebra with the most stripes wins.
Zebra *Rick* has 15 stripes.
Zebra *Ben* has 3 stripes more than zebra *Rick*.
Zebra *Rick* has 5 fewer stripes than zebra *Martijn*.

How many stripes does the winner have?

A. 16 **B.** 18 **C.** 20 **D.** 21 **E.** 22

23. *Gus*'s car is broken. The car cannot turn right.
Gus has to get from his **H**(house) to **S**(school).

Which route can *Gus* still drive?

A. B. C. D. E.

24. You have to put the cards in order. Like this: 1, 2, 3, 4, 5.
You may exchange two cards per turn.

3 4 1 5 2

What is the smallest number of turns you need?

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