

W4Kangoeroe

Thursday
March 19th 2020



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 March 29th



you may use 50 minutes



results and prizes will arrive at school at the end of May



solutions will be posted on the website about April 20th









www.smart.be



www.schoolsupport.nl







www.mathplay.eu







wizKID group 5 & 6 primary school

1. *Marie* takes a picture of the same mushroom for 5 days. She starts on Monday.

Which picture did she make on Tuesday?



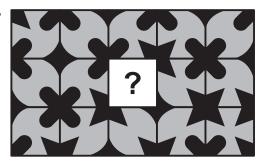








2. Which piece completes the pattern?









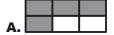




3. *Greta* colours all the rectangles in the grid where the result is 20.

16 + 4	19 + 1	28 — 8
2 × 10	16 — 4	7 × 3

Which shape does she get?











4. Sjors glues these 6 stickers to the faces of a cube:







Which sticker is on the opposite face to the cat?



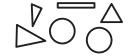








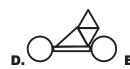
5. Which of the figures below can you make with these pieces?













6. Fatima draws the big square on the pavement with chalk.

She starts jumping from number 1.

Each time she jumps, she jumps to a number that is 3 more than the number she is on.

1	5	8	11
4	7	10	14
24	23	13	18
21	19	16	20

What is the largest number that Fatima can jump onto?

A. 11

B. 14

C. 18

D. 19

E. 24

With which of the combinations below can he make a square, without breaking or overlapping the sticks?

E. with 6 long sticks

B. with 3 short and 3 long sticks

C. with 6 short sticks

A. with 5 short and 2 long sticks

D. with 4 short and 2 long sticks

Which of the following figures has the largest grey part?

7.

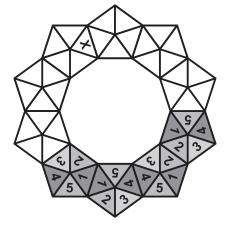
8.



She is building a crown using them.

When 2 tokens share a side, the corresponding numbers match.

Amalia has already placed 4 tokens.



Which number goes in the triangle marked with a cross?

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

14. The sum of 3 numbers is 50.

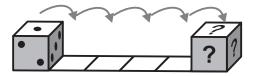
Karin subtracts a secret number from each of these 3 numbers. She gets 24, 13 and 7 as the results.

Which one of the following is 1 of the original 3 numbers?

- **A.** 9
- **B.** 11
- **C.** 13
- **D.** 17
- **E.** 23

15. Saskia has a normal die.

2 opposite sides always have 7 dots together.

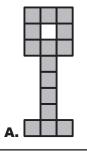


The die is put on a strip of paper and then rolls towards the right.

When the die gets to the last square, what is the total number of dots on the faces marked with the question marks?

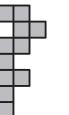
- **A.** 6
- **B.** 7
- **C.** 9
- **D.** 11
- **E.** 12
- **16.** *Rutmer* cuts every key into 3 pieces, each containing 5 grey squares. *Rutmer* wants the 3 pieces to have a different shape.

For which key is this not possible for *Rutmer*?

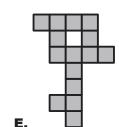




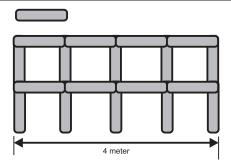
c. 📆



D.



17. Lonneke builds a fence using 1 metre long poles. The picture shows a fence that is 4 metres long.



How many poles does Lonneke need to build a 10 metre long fence?

- **A.** 25
- **B.** 27
- **C.** 42
- **D.** 45
- **E.** 60

18. 6 people each order 1 scoop of ice cream.

They order 3 scoops of vanilla, 2 scoops of chocolate and 1 scoop of lemon.

They top the ice creams with 3 cherries, 2 wafers and 1 chocolate chip.

They use 1 topping on each scoop, such that no 2 ice creams are alike.





Which of the following combinations does **not** occur?

A. chocolate with a cherry

C. lemon with a wafer

E. vanilla with a chocolate chip

B. vanilla with cherry

D. chocolate with a wafer

19. The Queen tries to find out the 3 names of *Rumpelstiltskin*'s wife.

She asks her:

"Are you called Adele Lilly Cleo?"

"Are you called Adele Laura Cora?"

"Are you called Abbey Laura Cleo?"

Each time exactly 1 name and its position was right.

What is the name of Rumpelstiltskin's wife?

A. Abbey Lilly Cora

B. Abbey Laura Cora

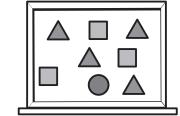
C. Adele Laura Cleo

D. Adele Lilly Cora

E. Abbey Laura Cleo

20. The numbers 1 to 8 are written on the board.

The teacher covered them with triangles, squares and a circle. If you add the numbers covered by triangles the sum is 10. If you add the numbers covered by squares the sum is 20.



Which number is covered by the circle?

A. 3

B. 4

C. 5

D. 6

E. 7

21. Heleen wants to colour the heads, wings and tails of a number of parrots.

She colours each parrot in a different way.

Each parrot gets 3 different colours: red, blue and green.

She colours the head of the first parrot red, the wings green and the tail blue.



How many more parrots can Heleen colour after this?

A. 3

B. 5

C. 6

D. 9

E. 27

22. Several teams came to the summer Kangaroo camp.

Each team consists of 5 or 6 children. There are 43 children in total.

How many teams are at this camp?

A. 4

B. 6

C. 7

D. 8

E. 9

23. Anna replaces letters in KAN + GA – ROO with numbers and then calculates the result. She can choose numbers from 1 to 9, where same letters are replaced by same numbers and different letters by different numbers.

What is the largest possible result she can get?

A. 511

B. 933

C. 941

D. 942

E. 948

24. There are some apples and 8 pears in a basket.

Each of these fruits is green or yellow.

There are 3 more apples than green fruits. There are 6 yellow pears.

How many yellow apples are there in the basket?

A. 4

B. 5

C. 6

D. 7

E. 8