

**THURSDAY
MARCH 21ST 2024**



© Stichting Wiskunde Kangoeroe

WERELDWIJDE WISKUNDE WEDSTRIJD

WWW.W4KANGOEROE.NL

**GOOD LUCK AND MOST OF
ALL HAVE FUN !**



calculators are not allowed



30 minutes for 12 questions (group 3)

60 minutes for 24 questions (group 4)



only a pencil, an eraser and scribbling paper are allowed



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

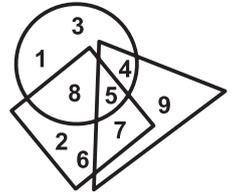


answers will be posted on the website about March 29th



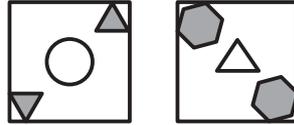
solutions will be posted on the website about April 20th

1. Which number is inside all shapes (triangle, square and circle)?



- A. 1 B. 4 C. 5 D. 8 E. 9

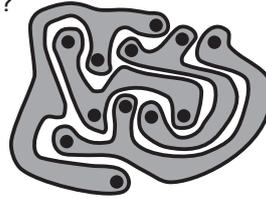
2. Anna has 2 pieces of glass. She places the pieces on top of each other. She doesn't turn the pieces.



What will Anna see then?

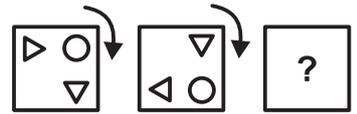
- A. B. C. D. E.

3. How many of the 4 shapes have 3 dots inside?



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

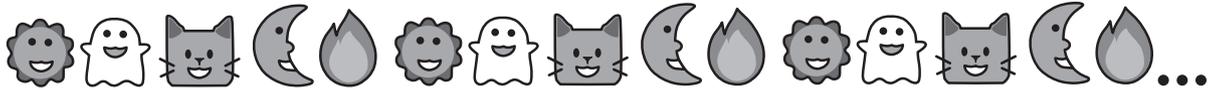
4. Iwan puts a sheet with a picture on the table. He rotates the sheet a quarter turn to the right. Then he rotates the sheet another quarter turn to the right.



Which picture does Iwan see now?

- A. B. C. D. E.

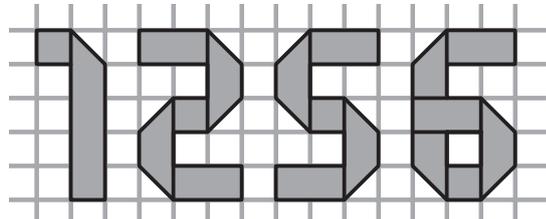
5. In this picture there are 5 different icons.



Can you see which icon is in the 27th position?

- A. B. C. D. E.

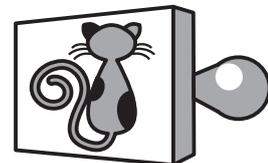
6. Each number is made of a ribbon.



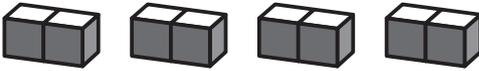
Which ribbon is the longest?

- A. 1 B. 2 C. 5
D. 6 E. The ribbons are all the same length.

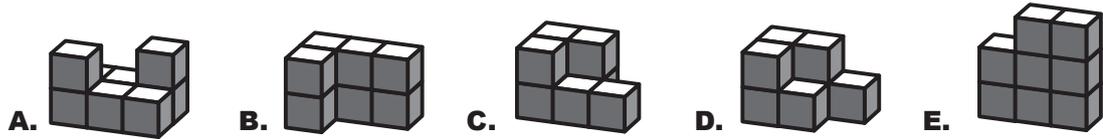
7. If you are going to use this stamp, what will the cat look like?



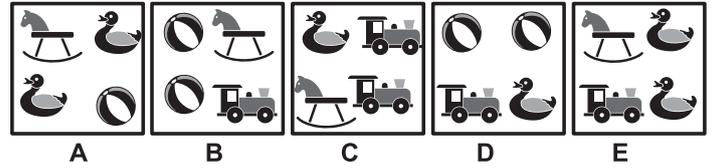
- A. B. C. D. E.

8. Selma has 4 blocks. 

Which of the following constructions can Selma **not** make with these blocks?



9. Nassim has 5 baskets with toys in them. There are 4 toys in each basket. Nassim drops 4 baskets.



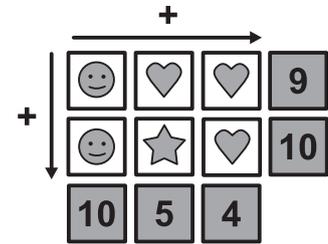
The toys are now mixed up.



Which basket does Nassim **not** drop?

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

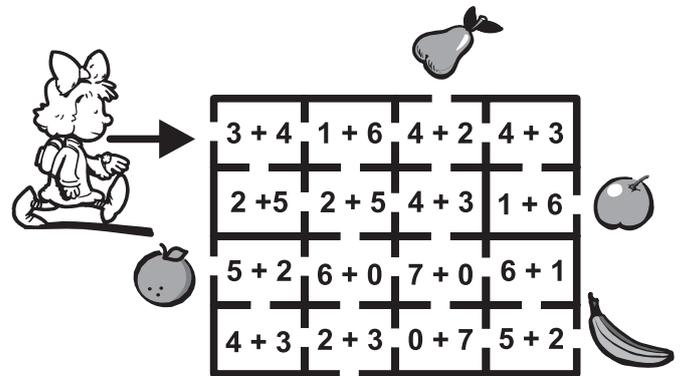
10. In this picture the same shapes represent the same numbers. If the shapes are different, then the numbers are also different. The numbers are added together, following to the arrows. The answers are written next to it and below it.



What is the value of ★?

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

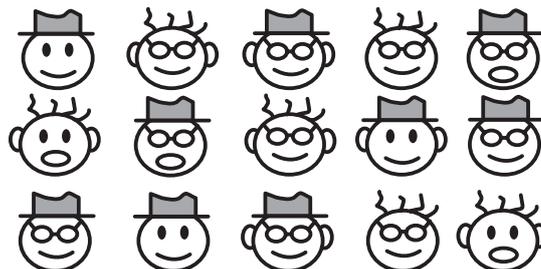
11. Sharon is walking through the maze. She may only visit rooms with the answer 7.



Which fruit can Sharon reach?



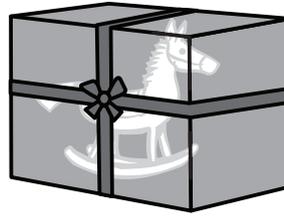
12. In the picture you see 8 different faces almost all of them twice. One face appears only once.



Which face is that?



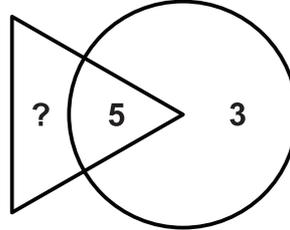
13. A toy pony is in a box.
 The box is 1 meter high.
 The box is also 1 meter wide.
 The box is 2 meters long.
 Around the box is a ribbon.
 An extra 1 meter is used for the knot of the ribbon.



How long is the ribbon in total?

- A. 9 meters B. 11 meters C. 13 meters D. 15 meters E. 17 meters

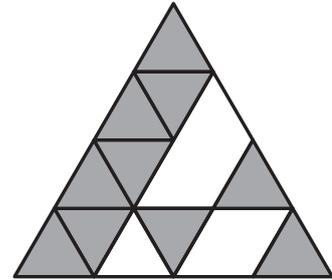
14. You need to replace the question mark for a number (see picture below).
 The result of the addition in the triangle must become twice the result of the addition in the circle.



With what number should you replace the question mark?

- A. 3 B. 5 C. 8 D. 11 E. 16

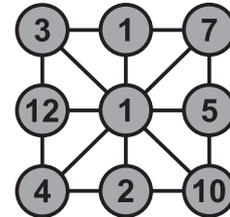
15. *Bruno* glues small triangles into a big triangle.
 In the picture you can see the result so far.



How many more triangles does *Bruno* have to glue?

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

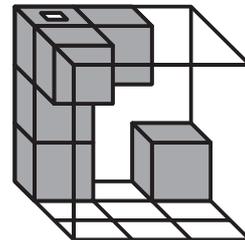
16. I am standing on one of the numbers in the picture.
 Add together all the numbers that have a line directly to me.
 You will get me as the answer.



Which number am I standing on?

- A. 3 B. 5 C. 7 D. 10 E. 12

17. *Selma* has a box made of glass.
 In it there are 6 small cubes.
 You can see the box in the picture.



What does *Selma* see when she looks at the box from above?

- A.

□		

 B.

□		

 C.

□		

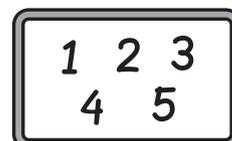
 D.

□		

 E.

□		

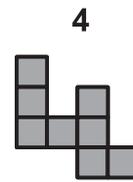
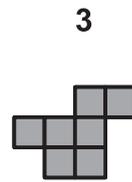
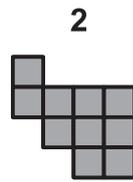
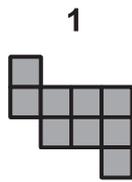
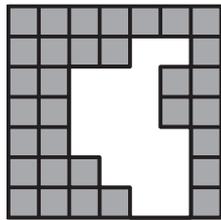
18. *Joep* chooses 2 numbers from the board each time.
 He adds these numbers together.



How many different results can he get?

- A. 5 B. 6 C. 7 D. 8 E. 9

19. Which 2 puzzle pieces must you use to complete the puzzle?



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

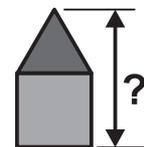
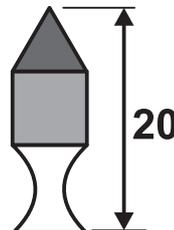
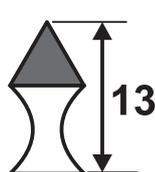
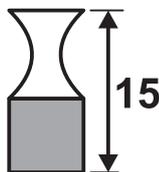
20. *Ali, Bella, Che* and *Dimitrie* each have 3 stickers. Each child has only 1 sticker in common with each other child.



Which stickers does *Dimitrie* have?

- A. B. C. D. E.

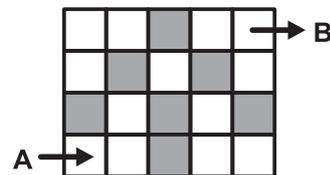
21. *Koos* is building buildings. He uses 3 kinds of blocks. You can see the height of 3 buildings below.



What is the height of the 4th building?

- A. 12 B. 13 C. 14 D. 15 E. 16

22. *Sara* wants to go from A to B in the rectangle. She can only move to the right or upwards. Each grey cell costs 1 euro. Each white cell costs 2 euros. *Sara* wants to take the cheapest path.



How expensive is the cheapest path for *Sara*?

- A. 11 euros B. 12 euros C. 13 euros D. 15 euros E. 16 euros

23. *Julia* wants to solve a pile of puzzles. She starts on the 1st of May. If she solves exactly 2 puzzles each day, she will finish on a Sunday. If she solves exactly 3 puzzles each day, she will finish on a Wednesday.

MAY 2024						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

How many puzzles are in the pile?

- A. 6 B. 12 C. 18 D. 24 E. 30

24. *André* is throwing darts. He starts with 10 darts. Each time he hits the target he gets 2 more darts. When *André* finishes, he has thrown 20 darts

How many times did *André* hit the target?

- A. 4 B. 5 C. 6 D. 8 E. 10