

KÄNGURU DER MATHEMATIK 2025

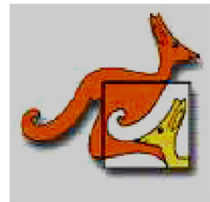
20th March 2025

Level: Felix, Grade: Schulstufe 2

Full name:	
School:	
Class:	

Time: 60 min.

- each correct answer to questions 1 – 5: 3 points
 - each correct answer to questions 6 – 10: 4 points
 - each correct answer to questions 11 – 15: 5 points
 - each question left unanswered: 0 points
 - each incorrect answer: minus $\frac{1}{4}$ of the points for the question
- 15 base points



Please write the letter (A, B, C, D, E) of the correct answer in the square under the question number (1 to 15). Write clearly and carefully!

1	2	3	4	5

6	7	8	9	10

11	12	13	14	15



Information über den Känguruwettbewerb:

www.kaenguru.at

3 Points

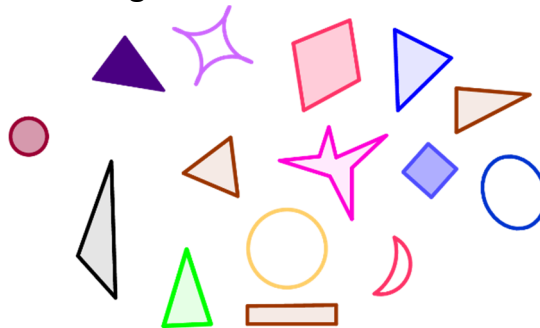
1. Pablo has six balloons.
He gives away two of his balloons.



How many balloons does Pablo have now?

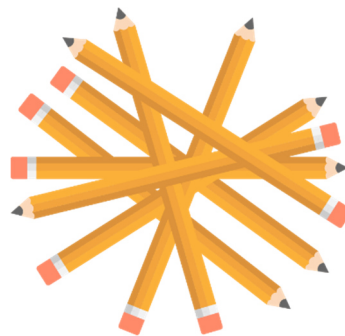
- (A) 2 (B) 3 (C) 4 (D) 5 (E) 6

2. How many of these shapes are triangles?



- (A) 2 (B) 3 (C) 4 (D) 5 (E) 6

3. How many pencils are in this picture?

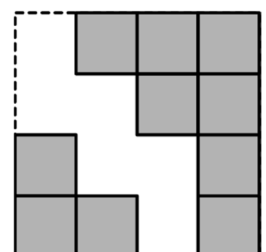


- (A) 7 (B) 8 (C) 9 (D) 14 (E) 16

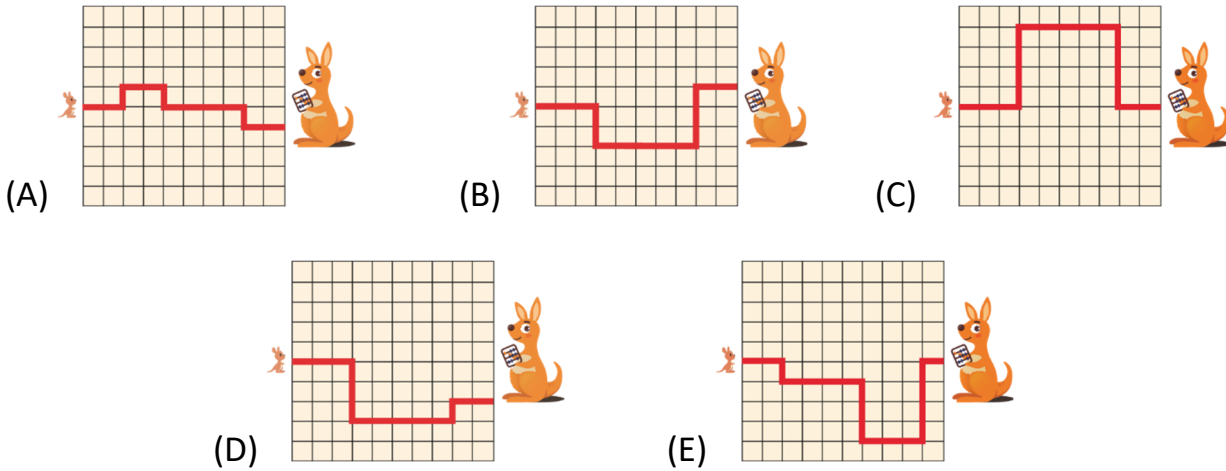
4. Felix forms a square out of 16 small, grey tiles.
He then removes some of the small tiles – see picture.

How many small tiles did he remove?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

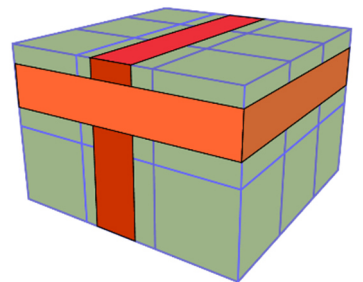


5. Five baby kangaroos are looking for their mothers. They jump along the lines marked. Which path is the shortest?



4 Points

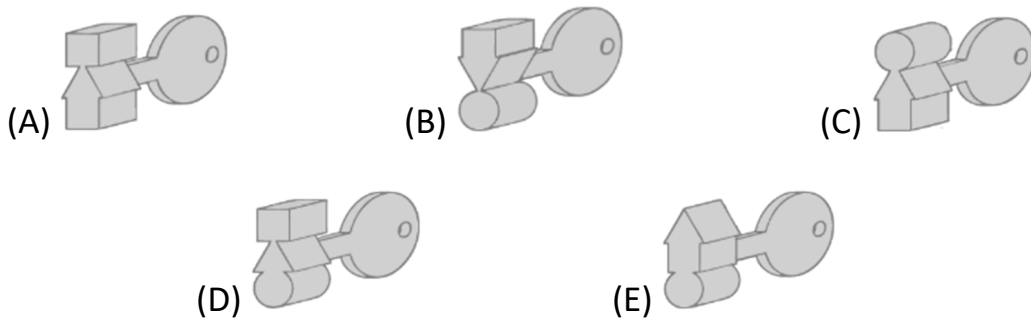
6. Laura glues together 18 cubes. Then she stretches two rubber bands around them – see picture.



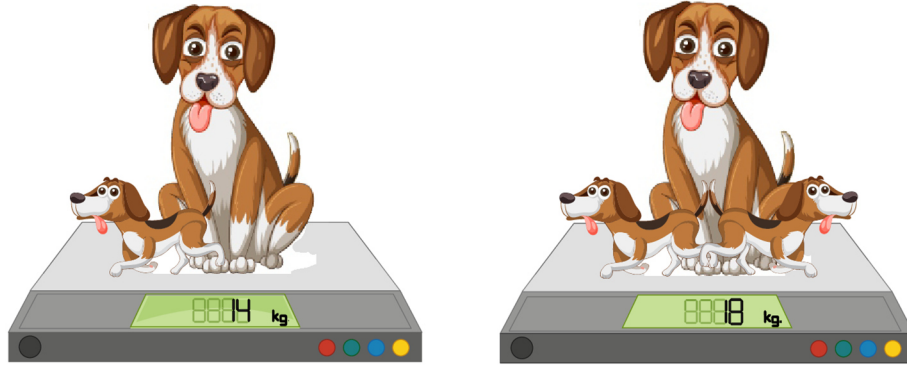
How many cubes are **not** touched by any of the rubber bands?

- (A) 6 (B) 8 (C) 9 (D) 10 (E) 12

7. Which key fits the lock?



8. A dog has 2 puppies that both weigh the same.
 Picture 1 shows that the dog and one puppy together weigh 14 kilograms.
 Picture 2 shows that the dog and both puppies together weigh 18 kilograms.



How many kilograms does the big dog weigh?

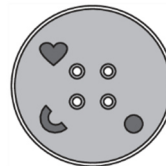
- (A) 9 (B) 10 (C) 11 (D) 12 (E) 13

9. Jan puts 12 pieces of fruit on a table.
 Vera takes away 2 pears, 4 apples and half of the oranges.
 Now there are only oranges on the table.

How many oranges are left?

- (A) 1 (B) 2 (C) 3 (D) 4 (E) 6

10. All the buttons on Carola's sweater look exactly like this:

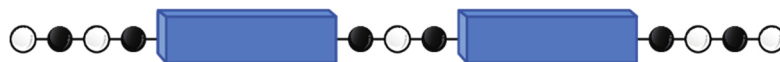


Which one of these buttons is from her sweater?

- (A) (B) (C) (D) (E)

5 Points

11. Alex threads white and black beads alternately onto a piece of string.
 Twice, 5 beads are hidden – see picture.



How many white beads are hidden in total?

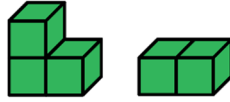
- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

12. 17 squirrels are sitting on 4 trees.
 There are at least 2 squirrels on each tree.
 The number of squirrels is different on each tree.

What is the largest possible number of squirrels on one tree?

- (A) 7 (B) 8 (C) 9 (D) 10 (E) 11

13. Mike has these 2 building blocks:



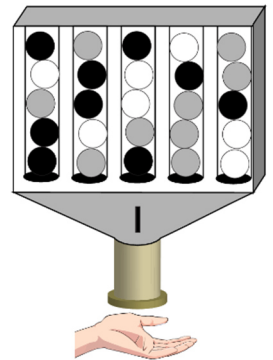
Which of the objects **cannot** be built with these two building blocks?

- (A) (B) (C) (D) (E)

14. Every time a coin is put into the machine,
 the bottom ball falls out of one of the five tubes.

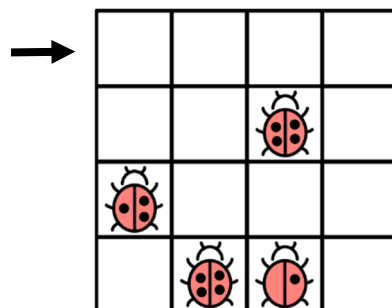
How many coins does Barbara have to put in to be sure she gets at least one white ball?

- (A) 6 (B) 9 (C) 10 (D) 11 (E) 15



15. Amir has stickers with different ladybugs. .
 They have 1, 2, 3 or 4 dots on their wings.

Amir wants to fill the grid with his stickers so that there are ladybugs with 1, 2, 3 and 4 dots in every row and in every column.



What should the top row of the grid look like when Amir is finished?

- (A) (B) (C) (D) (E)