

KÄNGURU DER MATHEMATIK 2024

21. 3. 2024

Level: Écolier, Grades 3 and 4

Name:	
School:	
Class:	

Time: 60 min.

24 starting points

each correct answer to questions 1. – 8.:

3 points

each correct answer to questions 9. – 16.:

4 points

each correct answer to questions 17. – 24.:

5 points

each questions left unanswered:

0 points

each incorrect answer: minus $\frac{1}{4}$ of the points for the question



Please write the letter (A, B, C, D, E) of the correct answer in the square under the question number (1 bis 24). Write clearly and carefully!

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EUROSYSTEM

1	2	3	4	5	6	7	8

9	10	11	12	13	14	15	16

17	18	19	20	21	22	23	24

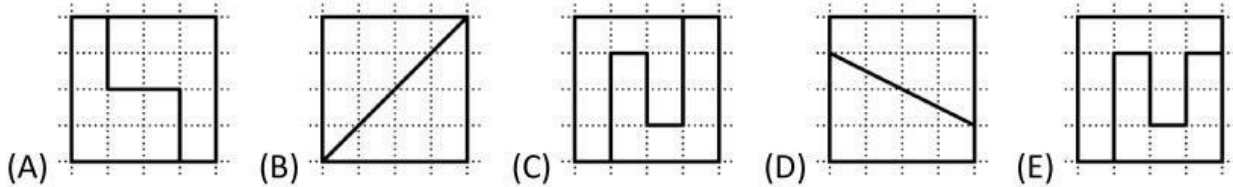


Information über den Känguruwettbewerb:
www.kaenguru.at



– 3 Point Examples –

1. Which square was divided into two different figures?



2. Lizzy has 7 coins of a kind. She buys three fruits at the market.

Each fruit has a different price.

How much is the most expensive fruit?

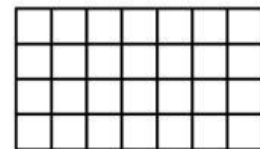
- (A) 2 coins (B) 3 coins (C) 4 coins (D) 5 coins (E) 6 coins

3. The rectangle on the right consists of 4 rows and 7 columns.

In total, it consists of 28 white squares.

Ira paints 2 rows and 1 column.

How many squares remain white?

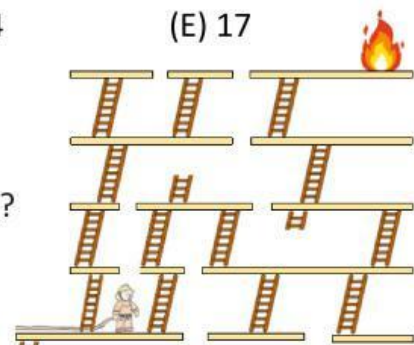


- (A) 8 (B) 10 (C) 12 (D) 14 (E) 17

4. Firefighter Fred wants to put out the fire.

What is the smallest number of ladders he has to climb in the picture on the right, to get to the fire without jumping?

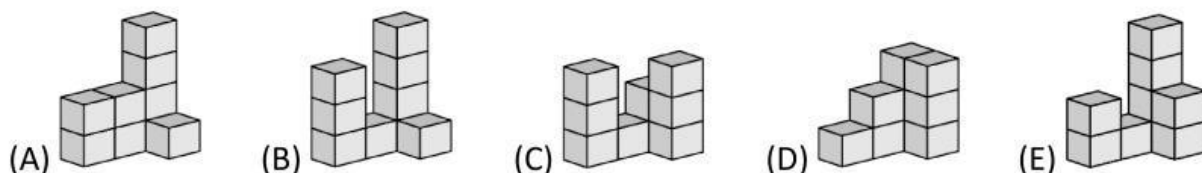
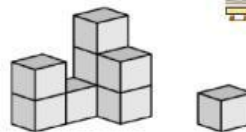
- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8



5. Ben has built a structure.

A cat has thrown a cube off his structure:

Which of these structures did Ben build?

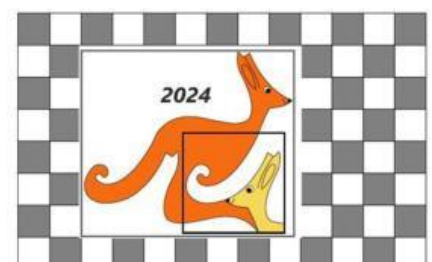


6. Alex hangs a poster on his kitchen wall.

The kitchen wall has white and grey tiles of the same size – see picture.

How many grey tiles are completely covered by the poster?

- (A) 15 (B) 21 (C) 25 (D) 30 (E) 35



7. Tim has black and white squares of paper. He glues the squares on the inside of a window. This creates the pattern shown on the right.



What pattern can you see from the outside?

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

8. 213, 214 and 215 are three consecutive three-digit numbers.
Mohammad writes three consecutive four-digit numbers in a row.
His sister erases a few digits from each of the three numbers.

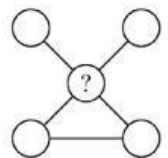
___7, _898, 48__

Which digits (from left to right) are missing?

- (A) 3 8 9, 3, 9 9 (B) 4 8 9, 3, 9 6 (C) 4 8 9, 4, 9 8 (D) 4 8 9, 4, 9 9 (E) 4 8 8, 4, 9 9

– 4 Point Examples –

9. Lisa writes the numbers 1, 2, 4, 5 and 6 in the circles of the pattern. She writes each of the five numbers exactly once, and if she adds up the numbers along one of the three straight lines, she gets 11 each time.



Which number did she write in the circle with the question mark?

- (A) 1 (B) 2 (C) 4 (D) 5 (E) 6

10. These five fruits are in a basket: 🍎 🍇 🍓 🍌 🍌.

Ann likes 🍌. Ben likes 🍎 🍇 🍓 🍌 🍌. Cam likes 🍌 🍌 🍌. Dan likes 🍌 🍌. Eli likes 🍇 🍌.

Each child takes one fruit that they like.

Which fruit does Ben take?

- (A) 🍌 (B) 🍇 (C) 🍓 (D) 🍌 (E) 🍌

11. The wizard Adam built the tower on the right out of 8 discs.

He magically makes discs disappear one after the other:

First the second disc from the bottom, then from the new tower the third disc from the bottom. Then he makes the fourth disc from bottom of the newly created tower disappear. At the end, he removes the fifth disc from the bottom of the now newly created tower.

What tower does Adam get?



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

12. Penguin Peter goes fishing every day and brings 9 fish for his two children.

Every day he gives 5 fish to the first child he sees. The other child then gets 4 fish.

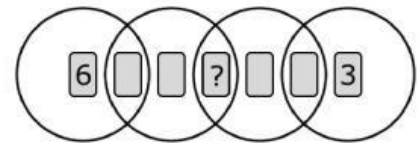
In the last few days, a child has had a total of 26 fish.

How many fish did the other child get?

- (A) 19 (B) 22 (C) 25 (D) 28 (E) 31



13. 7 cards with the numbers from 1 to 7 are placed in these four overlapping rings: If you add up the numbers of all the cards in a ring, the result is always 10.



What number is on the card with the question mark?

- (A) 1 (B) 2 (C) 4 (D) 5 (E) 7

14. Lucas has these five pieces of a puzzle available:
He wants to lay a caterpillar consisting of a head, a tail



and 1, 2 or 3 parts in between.

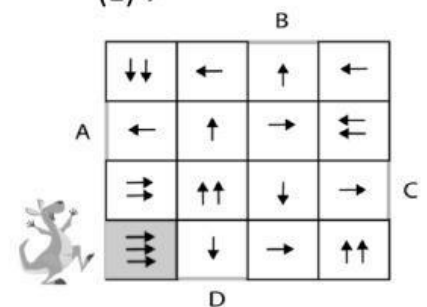
How many different caterpillars can Lucas build?

- (A) 3 (B) 4 (C) 5 (D) 6 (E) 7

15. Kangaroo Joey hops through a maze.

The arrows of a field indicate how far, and in which direction, Joey has to bounce. A field with three arrows means that Joey bounces in the direction of the arrows, skipping two spaces, and landing in the 3rd space.

Through which exit will Joey leave the maze, if he starts in the bottom left field with the three arrows?



- (A) through A (B) through B (C) through C (D) through D (E) through none of the four exits

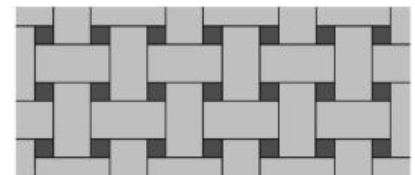
16. Two types of tiles were used for a kitchen floor:

rectangular  and square .

This picture shows part of the installed kitchen floor:

The rectangular tiles are 23 cm long and 11 cm wide.

What is the length of a side of a small square tile?



- (A) 3 cm (B) 4 cm (C) 5 cm (D) 6 cm (E) 7 cm

– 5 Point Examples –

17. Mia has 3 cards with three-digit numbers on them.

If she adds the three numbers together, she gets the number 782.

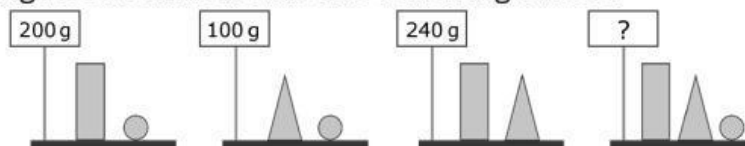
Unfortunately, a worm has eaten one digit of each card.

What number does she get when she adds up the three digits that the worm has eaten?



- (A) 8 (B) 9 (C) 10 (D) 11 (E) 12

18. Lucy weighs building blocks and obtains the following values:



How much do the three different building blocks weigh together?

- (A) 270 g (B) 280 g (C) 290 g (D) 300 g (E) 310 g

