## 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.: each correct answer to questions 9. - 16.: each correct answer to questions 17. - 24.: each questions left unanswered: each incorrect answer: minus  $\frac{1}{4}$ 

## 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!

 1
 2
 3
 4
 5
 6
 7
 8

 I
 I
 I
 I
 I
 I
 I

| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
|---|----|----|----|----|----|----|----|
|   |    |    |    |    |    |    |    |

| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |



Information über den Känguruwettbewerb: <u>www.kaenguru.at</u>









3 points

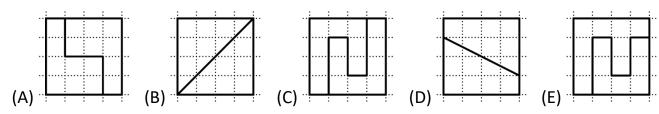


Name:

Level Écolier (Schulstufe 3 and 4)



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

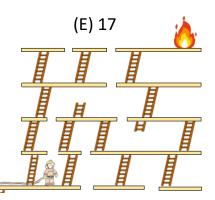
**3.** The rectangle on the right consists of 4 rows and 7 columns.

What is the smallest number of ladders he has to climb in

(C) 6

the picture on the right, to get to the fire without jumping?

(E) 6 coins



**5.** Ben has built a structure.

(B) 5

(A) 8

(A) 4

A cat has thrown a cube off his structure: Which of these structures did Ben build?

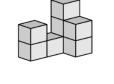
In total, it consists of 28 white squares.

(B) 10

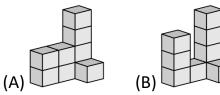
**4.** Firefighter Fred wants to put out the fire.

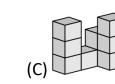
Ira paints 2 rows and 1 column.

How many squares remain white?



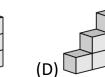
(E) 8



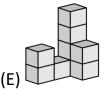


(D) 7

(C) 12



(D) 14

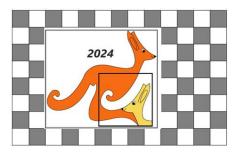


6. Alex hangs a poster on his kitchen wall.

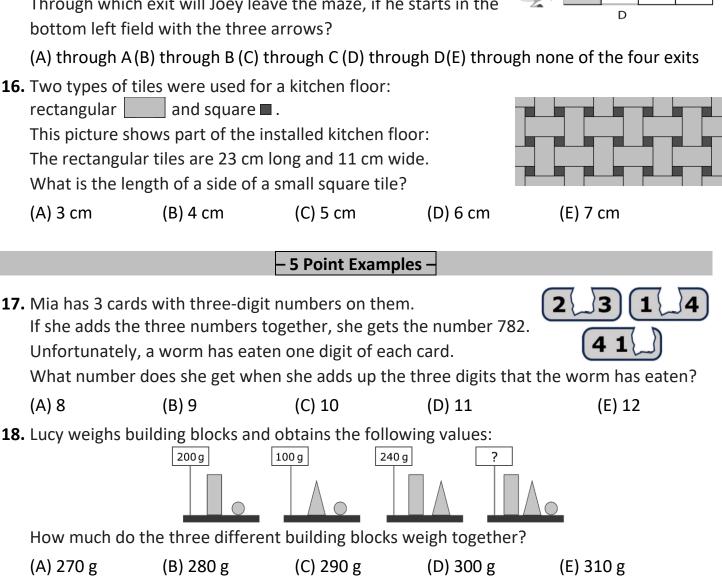
The kitchen wall has white and grey tiles of the same size – see picture.

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? (B) (A) (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 (D) 5 (C) 4 (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? (C) 🏈 (E) 🖉 (A) 🍎 (B) 🗞 (D) 🌽 **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? (B) (A) (C)(D) **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



and landing in the 3rd space. Through which exit will Joey leave the maze, if he starts in the

**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?

What number is on the card with the question mark?

(B) 4 (C) 5 (D) 6 (A) 3

(C) 4

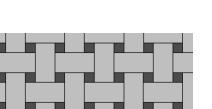
**15.** Kangaroo Joey hops through a maze.

a ring, the result is always 10.

(B) 2

(A) 1

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



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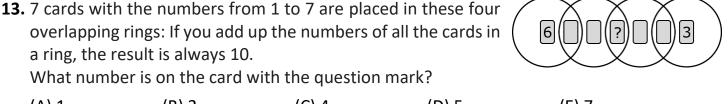
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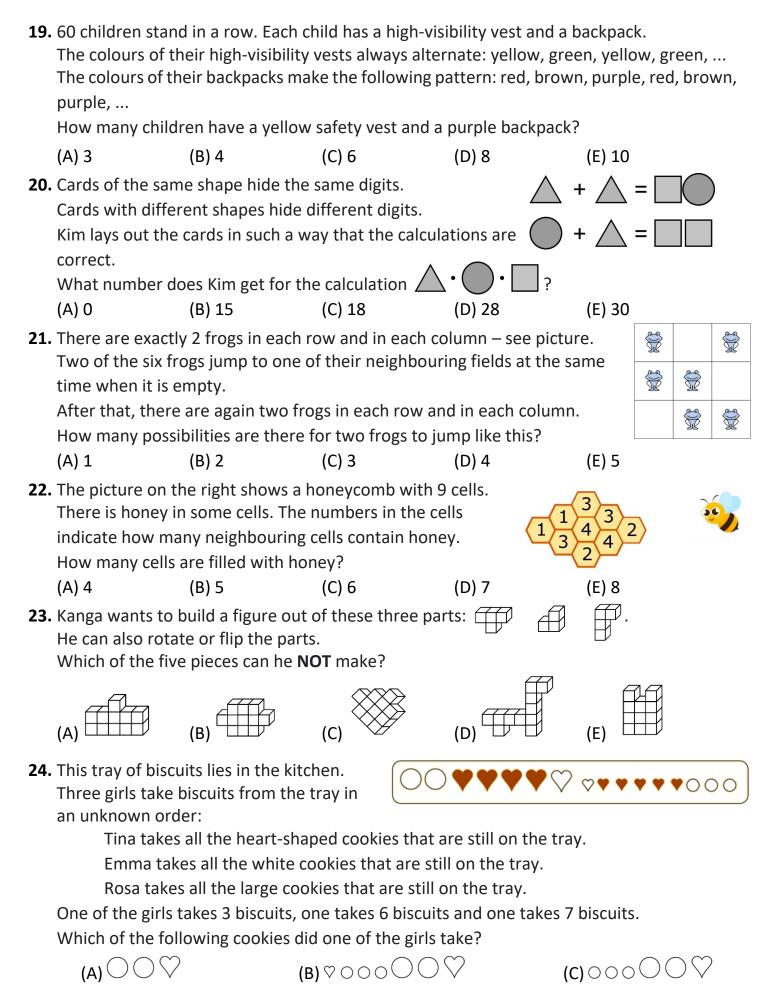
(E) 7

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⇉

А



(D) ♥♥♥♥♥♡♡♡

(E) O O O