

# KÄNGURU DER MATHEMATIK 2019

## 21. 3. 2019

Level: Felix, Grade: 1 – 2

<b>Name:</b>	
<b>School:</b>	
<b>Class:</b>	

Time: 60 min.

15 starting points

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



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!

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>

<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>

<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>

# Känguru der Mathematik 2019

## Level Felix (Grade 1 and 2)

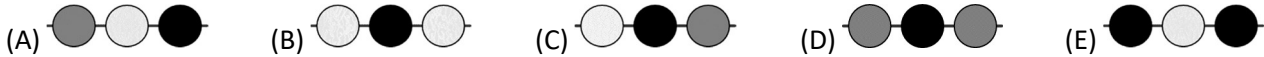
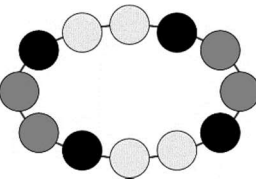
### Austria – 21. 3. 2019

- 3 Point Examples -

1. Which of these clouds contain only numbers that are smaller than 7?



2. Which of the 5 pictures shows a part of this chain?



3. Mother kangaroo and her son Max together weigh 60 kg (kilograms).  
The mother on her own weighs 52 kg.  
How heavy is Max?

- (A) 4 kg      (B) 8 kg      (C) 30 kg      (D) 56 kg      (E) 112 kg



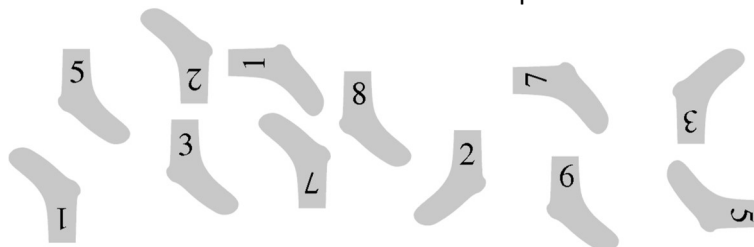
4. There are 12 children in front of a zoo. Susi is the 7th from the front and Kim the 2nd from the back.



How many children are there between Susi and Kim?

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

5. Jörg is sorting his socks. Two socks with the same number are one pair.



How many pairs can he find?

- (A) 8      (B) 6      (C) 5      (D) 4      (E) 3

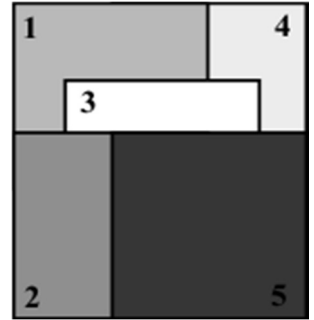
- 4 Point Examples -

6. Five equally big square pieces of card are placed on a table on top of each other. The picture on the side is created this way.

The cards are collected up from top to bottom.

In which order are they collected?

- (A) 5-4-3-2-1    (B) 5-2-3-4-1    (C) 5-4-2-3-1    (D) 5-3-2-1-4    (E) 5-2-3-1-4



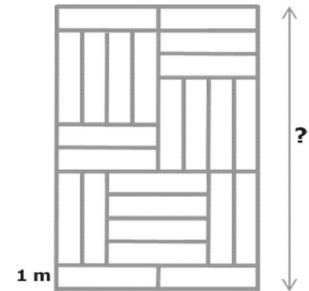
7. There are two kinds of camels: bactrian camels that have 2 humps, dromedaries that have 1 hump. Exactly 10 camels live in a certain zoo. Together they have 14 humps. How many bactrian camels are there in this zoo?

- (A) 1                (B) 2                (C) 3                (D) 4                (E) 5

8. The floor of a room is covered with equally big rectangular tiles (see picture).

How long is the room?

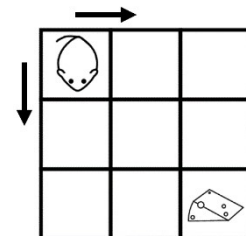
- (A) 6 m            (B) 8 m            (C) 10 m            (D) 11 m            (E) 12 m



9. The picture shows a mouse and a piece of cheese. The mouse is only allowed to move to the neighbouring fields in the direction of the arrows.

How many paths are there from the mouse to the cheese?

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



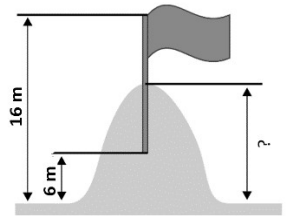
10. Which of the figures can be cut into these 3 pieces?



- (A)    (B)    (C)    (D)    (E)

**- 5 Point Examples -**

- 11.** The giants Tim and Tom build a sandcastle and decorate it with a flag. They insert half the flagpole into the highest point of the sandcastle. The highest point of the flagpole is now 16 m above the floor, the lowest 6 m (see diagram). How high is the sandcastle?



- (A) 11 m      (B) 12 m      (C) 13 m      (D) 14 m      (E) 15 m

- 12.** There are white, grey and black squares. Three children use these to make this pattern.



First Anni replaces all black squares with white squares.  
Then Bob replaces all grey squares with black squares.  
Finally Chris replaces all white squares with grey squares.  
Which picture have the three children now created?

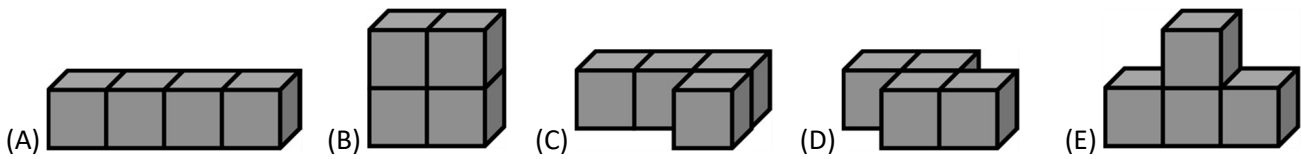
- (A)
- (C)
- (E)

- (B)
- (D)

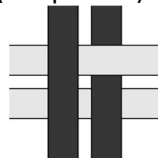
- 13.** Together the three squirrels Anni, Asia and Elli have 10 nuts. Each one has a different number of nuts but at least 2 nuts. Anni has the least number of nuts. Asia has the most nuts. How many nuts does Elli have?

- (A) 1      (B) 2      (C) 3      (D) 4      (E) 5

- 14.** Each figure is made up of 4 equally big cubes and coloured in. Which figure needs the least amount of colour?



- 15.** Four strips of paper are used to make a pattern (see picture).



What do you see when you look at it from behind?

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