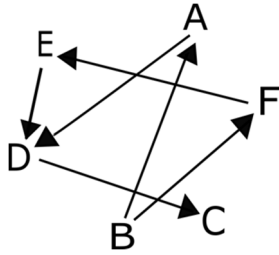**20.** An arrow pointing from one person to another means that the first person is taller than the second. For example, person B is taller than person A.
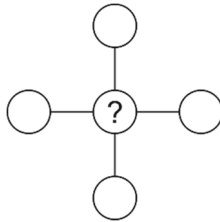Who is the shortest?

(A) Person A   (B) Person B   (C) Person C
(D) Person D   (E) Person E

21. There are some apples and 8 pears in a basket, each of them green or yellow. There are 3 more apples than green fruits. There are 6 yellow pears. How many yellow apples are there in the basket?
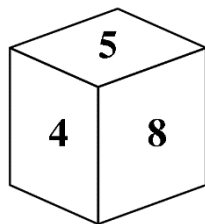
(A) 4   (B) 5   (C) 6   (D) 7   (E) 8

22. Roo wrote each of the numbers 1, 2, 3, 4 and 5 in one of the circles so that the sum of the numbers in the row is equal to the sum of the numbers in the column.   What could be written in the circle with the question mark?

(A) Only 5   (B) 2, 3 or 4   (C) Only 3   (D) Only 1 or 3 (E) 1, 3 or 5

23. Six different numbers chosen from 1 to 9 are written on the faces of a cube, one number on each face. The sums of numbers on each pair of opposite faces are equal. Which number could be opposite 5?

(A) 3   (B) 5   (C) 6   (D) 7   (E) 9

24. John and Olivia exchanged sweets. At first John gave Olivia as many sweets as Olivia had. Then Olivia gave John as many sweets as John had after the first exchange. After these two exchanges, each had 4 sweets. How many sweets did John have at the beginning?

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

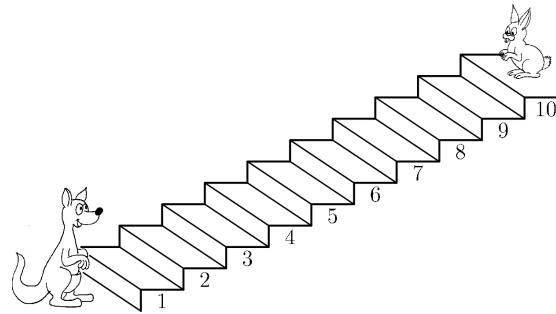## *International mathematical contest «KANGAROO»*

The time of the contest is 1 hour 15 minutes. There is exactly one correct answer among the answers (A)-(D). The test volume and content do not imply to be solved completely. There can be found some tasks in the test which are not from the school program.
_____
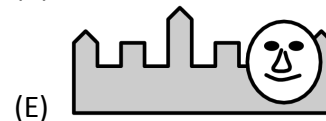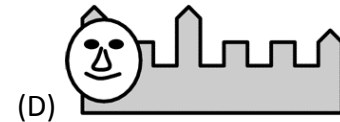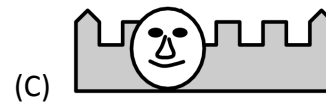**March 29, 2020**   **Grade 1-2**
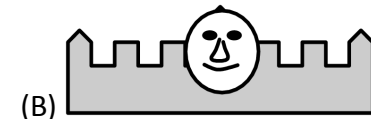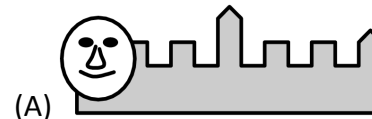
3 point problems

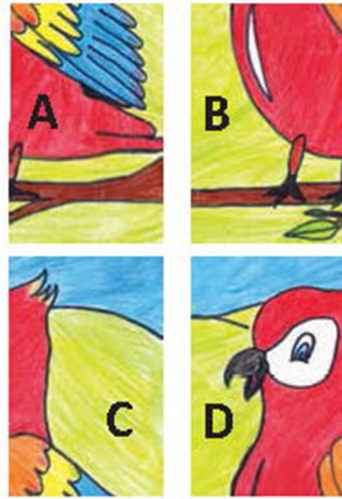**1.** The kangaroo goes up 3 steps each time the rabbit goes down 2 steps. On which step do they meet?

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

2. Mordka took a selfie in front of this castle. Which could be Mordka's photo?

(A)

(B)

(C)

(D)

(E)

3. Nelly arranged the 4 pieces to make a picture of a bird. How are the pieces arranged?

(A) | D | C |
| B | A |

(B) | C | D |
| B | A |

(C) | B | A |
| D | C |

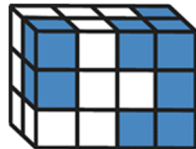(D) | D | C |
| A | B |

(E) | C | D |
| A | B |

4. A magician is pulling toys out of his top hat always in the same order:

The pattern repeats every 5 toys. Which two toys come next?

(A) (B) (C)

(D) (E)

5. Mary made a shape using some white cubes and 14 blue cubes. How many of these blue cubes cannot be seen in the picture?
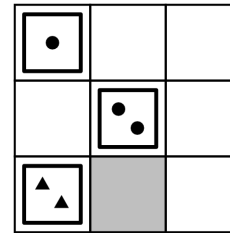
(A) 1   (B) 3   (C) 5   (D) 6   (E) 8
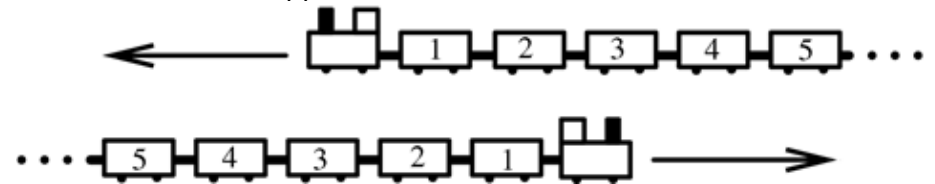
17. Tom has 9 cards:

He starts putting them on the board so that each row and column has one card with each geometrical shape and one with each number.

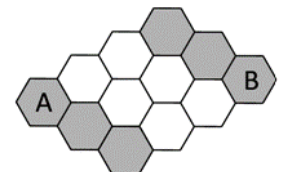Which card should go on the grey square?

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

18. Two identical trains, each with 31 cars, are traveling in opposite directions. When car No. 19 of one train is opposite car No. 19 of the other, which car is opposite car No. 12?
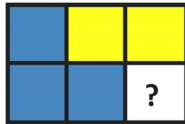
(A) 7   (B) 12   (C) 21   (D) 26   (E) 31

19. Mark the bee can walk only on grey cells. In how many ways could you colour grey just two white cells so that Mark can walk from A to B?

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

14. Mary wants to write the numbers 1, 2, 3, 4, 5 and 6 inside the six squares of the figure. She wants a different number in each square. She wants the sum of the numbers in the blue squares to be 10. She also wants the sum of the numbers in the yellow squares to be 10. What number must she write in the square with the question mark?
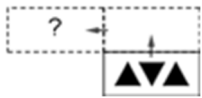
(A) 1   (B) 2   (C) 3   (D) 4   (E) 5

15. This card lies on the table.

It is flipped over its top edge then flipped over its left edge.
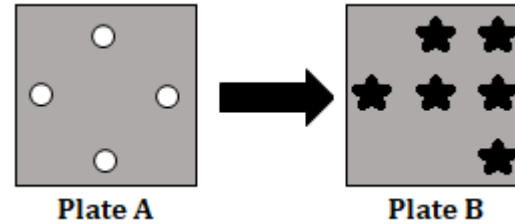
What does the card look like after the two flips?

(A)   (B)   (C)

(D)   (E)

16. Grandmother has just baked 12 cookies. She wants to give all of the cookies to her 5 grandchildren but also wants to give each of the grandchildren the same number of cookies.
How many more cookies should she bake?

(A) 0   (B) 1   (C) 2   (D) 3   (E) 4

6. José has two cards. Card A has holes.

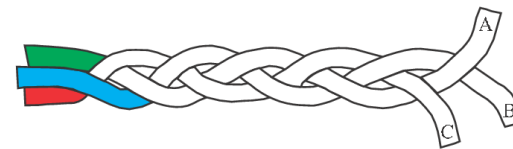Plate A   Plate B

 José places card A directly on top of card B. What can José see?

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

7. Anna draws a picture of some shapes. Her picture has 3 black triangles and fewer than 4 squares. Which could be Anna's picture?
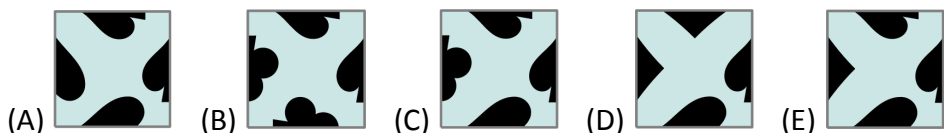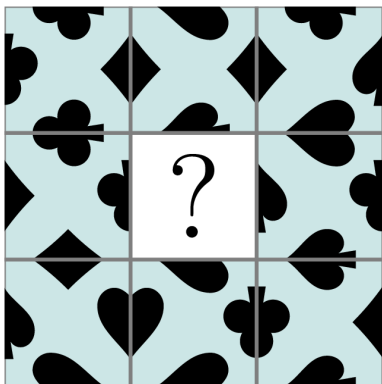
(A)   (B)   (C)   (D)   (E)

8. The braid in the figure is composed of three threads. One thread is green, one is blue and one is red. What can you say about the threads?
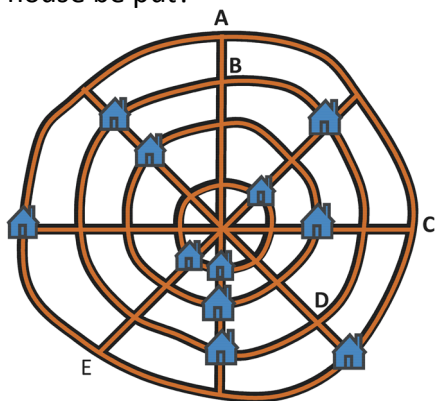
(A) A is blue, B is green and C is red.   (B) A is green, B is red and C is blue.
(C) A is red, B is blue and C is green.   (D) A is green, B is blue and C is red.
(E) A is blue, B is red and C is green.

4 point problems

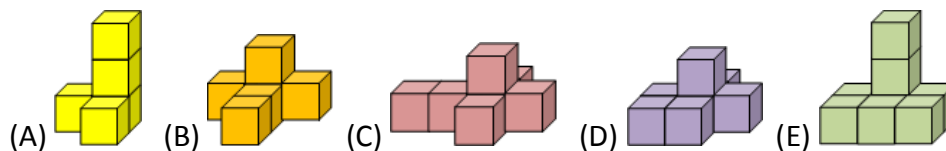**9.** Which piece completes the picture?

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

10. A village of 12 houses has four straight roads and four circular roads. The map shows 11 of the houses. On each straight road there are 3 houses. On each circular road there are also 3 houses. Where should the 12th house be put?
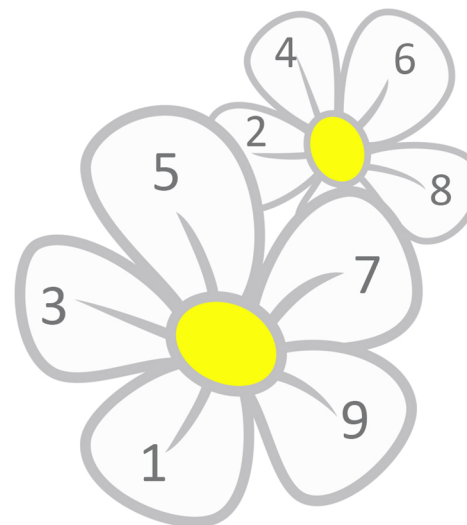
(A) at A   (B) at B   (C) at C   (D) at D   (E) at E

11. Five shapes are made by glueing cubes together face to face. Which shape uses the most cubes?

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

12. A number is written on each petal of two flowers. One petal is hidden.

The sums of the numbers on the two flowers are equal. What number is written on the hidden petal?

(A) 0   (B) 3   (C) 5   (D) 7   (E) 1

13. Which of the following pictures has more green than the others?

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