19. The numbers 1 to 9 are placed in the squares shown with a number in each square. The sums of all pairs of neighbouring numbers are shown. Which number is placed in the shaded square?
(A) 4
(B) 5
(C) 6
(D) 7
(E) 8

20. Mia throws darts at balloons worth 3, 9, 13, 14 and 18 points. She scores 30 points in total. Which balloon does Mia definitely hit?
(A) 3
(B) 9
(C) 13
(D) 14
(E) 18
(3) 9
(13) 1418
21. A box has fewer than 50 cookies in. The cookies can be divided evenly between 2,3 , or 4 children. However, they cannot be divided evenly between 7 children because 6 more cookies would be needed. How many cookies are there in the box?
(A) 12
(B) 24
(C) 30
(D) 36
(E) 48
22. Each of the 5 boxes contains either apples or bananas, but not
 both. The total weight of

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all the bananas is 3 times the weight of all the apples. Which boxes contain apples?
(A) 1 and 2
(B) 2 and 3
(C) 2 and 4
D) 3 and 4
(E) 1 and 4
23. Elena wants to write the numbers from 1 to 9 in the squares shown. The arrows always point from a smaller number to a larger one. She has already written 5 and 7 . Which number should she write instead of the question mark?
(A) 2
(B) 3
(C) 4
(D) 6
(E) 8
24. Martin placed 3 different types of objects
hexagons $\square$, squares $\square$ and triangles $\triangle$, on sets of scales, as shown. What does he need to put on the left-hand side on the third set of scales for these scales to balance?
(A) 1 square
(B) 2 squares
(C) 1 hexagon
(D) 1 triangle
(E) 2 triangles


Laiks uzdevumu risināšanai - 75 minūtes!
(A) $\square$
(B)

(C)

(D)

(E)


(C)

(D)

(E)


6. A measuring tape is wrapped around a cylinder. Which number should be at the place shown by the question mark?
(A) 33
(B) 42
(C) 48
(D) 53
(E) 69
7. Denise fired a silver and a gold rocket at the same time. The rockets exploded into 20 stars in total. The gold rocket exploded
into 6 more stars than the silver one. How many stars did the gold rocket explode into?
(A) 9
(B) 10
(C) 12
(D) 13
(E) 15



1. Erik has 4 bricks: $\qquad$
3 point problems
Which of the cubes shown below can he make with his 4 bricks?
2. How many fish will have their heads pointing towards the ring when we straighten the line?
(C) 6
(B) 5
(D) 7
(E) 8
3. When you put the 4 puzzle pieces together correctly, they form a rectangle with a calculation on it. What is the result of this calculation?
(A) 6
(B) 15
(C) 18
(D) 24
4. Five boys competed in a shooting challenge. Ricky scored the most points. Which target was Ricky's?
5. Alaya draws a picture of the sun. Which of the following answers is part of her picture?

(A)
6. Rosana has some balls of 3 different colours. Balls of the same colour have the same weight. What is the weight of each white ball $\bigcirc$ ?
(A) 3 kg
(B) 4 kg
(C) 5 kg
(D) 6 kg
(E) 7 kg


4 point problems
9. Visa has 3 different types of cards in a game: apple
 chooses 2 cards from the set and swaps their places. She wants to arrange the cards so that all the cards with the same fruit on are next to each other. For which set is this not possible?

10. Sofie wants to pick 5 different shapes from the boxes. She can only pick 1 shape from each box. Which shape must she pick from box 4 ?

(C)

box 4 box 5
(A) $\hat{N}$
(B) $\square$
(C)(D) $\triangle$
(E)
11. 18 cubes are coloured white or grey or black and are arranged as shown. The figures on the right show the white and the black parts. Which of the following is the grey part?

(A)

(B)

12. The 5 balls shown begin to move simultaneously in the directions indicated by their arrows. When two balls going in opposite
 directions collide, the bigger ball swallows the smaller one and increases its value by the value of the smaller ball. The bigger ball continues to move in its original direction, as shown in the following example. What is the final result of the
 shown in the following example
collisions of the 5 balls shown?
(A)

(B)

(C)

$\leftarrow$
(D)

(E)
E)
(B) $C$
(C) $D$
(D) F
(E) G
(A) A
C
(E)


16. Nora plays with 3 cups on the kitchen table. She takes the lefthand cup, flips it over, and puts it to the right of the other cups. The picture shows the first move. What do the cups look like after 10 moves?
(B)

(D)

(A)
 heights of 3 ladders are at their tops. What is the height of the shortest ladder?
(A) 12
(B) 14
(C) 16
(D) 20
(E) 22

5 point problems
17. Eva has the 5 stickers shown:
 so that 2 is not on square 5, $\begin{array}{lllll}\text { (A) } 1 & \text { (B) } 2 & \text { (C) } 3 & \text { and adjacent to } C \text { an which square did Eva stick } 2\end{array}$
18. 7 cards are arranged as shown. Each card has 2 numbers on with 1 of them written upside down. The teacher wants to rearrange the cards so that the sum of $\begin{array}{llllllllll}\text { the numbers in the top row is the same as the sum of the } & \text { A } & \text { B } & \text { C } & \text { D } & \text { E } & \text { F } & \text { G }\end{array}$ numbers in the bottom row. She can do this by turning one of the cards upside down. Which card must she turn?
(C)
(D)
3.-4. klases

