24. Benjamin writes an integer in the first circle and then fills the other five circles by following the instructions. How many of the six numbers in the circles are divisible by 3? (B) both 1 and 2 are possible (C) 2 (D) both 2 and 3 are possible (E) both 3 and 4 are possible 25. The cardboard is folded into a $2 \times 1 \times 1$ box. Which picture does NOT show this box? 26. Emily took selfies with her 8 cousins. Each of the 8 cousins is in two or three pictures. In each picture there are exactly 5 cousins. How many selfies did Emily take? (A) 3(B) 4 (C) 5 (D) 6 (E) 7 27. Jette and Willi are throwing balls at two identical pyramids of 15 cans. Jette knocks down 6 cans with a total of 25 points. Willi knocks down 4 cans. How many points does Willi score? (A) 22 (B) 23 after Jette's throw after Willi's throw (C) 25 (D) 26 (E)28 28. Every digit on my digital clock is composed of at most 7 segments, as follows: But, unfortunately, in every set of 7 segments the same 2 segments What will it show after 3 hours and don't work. At this moment my clock shows 45 minutes? 29. Linas builds a $4 \times 4 \times 4$ cube using 32 white and 32 black $1 \times 1 \times 1$ cubes. He arranges the cubes so that as much of the surface of his large cube is white. What fraction of the surface of his cube is white? 30. Zev has two machines: one exchanges 1 white token into 4 red tokens. while the other exchanges 1 red token into 3 white ones. Zev has 4 white tokens. After exactly 11 exchanges, he has 31 tokens. How many of those are red? (A) 21 (B) 17 (D) 27 (C) 14

Laiks uzdevumu risināšanai - 75 minūtes!

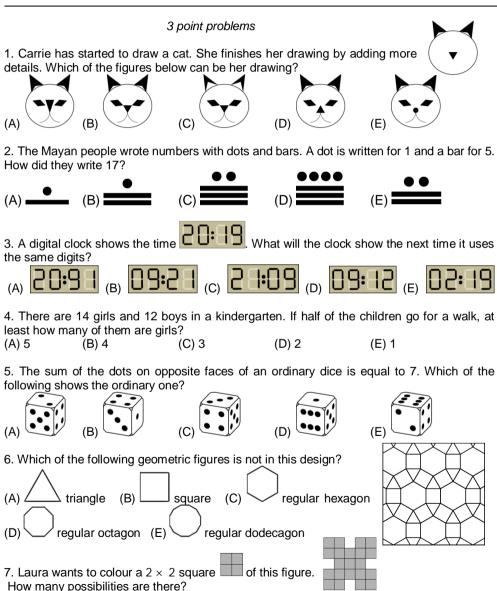
(A) 5

(B) 6



Starptautiskā konkursa "Ķengurs" uzdevumi

21.03.2019. 5.-6 klases



(D) 8

(C) 7

(E) 9

	8. The 6 smallest odd natural numbe times and adds the results. Which of (A) 21 (B) 3 (C)	the following numbers cannot be		16. In the garden of a witch there are 30 animals: dogs, cats and mid into cats. Then she turns 5 cats into mice. Now her garden has the cats and mice. How many cats were there at the beginning? (A) 4 (B) 5 (C) 9 (D) 10		
	9. The sum of the ages of a group of kangaroos is 36 years. In two years time the sum of their ages will be 60 years. How many kangaroos are in that group? (A) 10 (B) 12 (C) 15 (D) 20 (E) 24		17. With blocks of dimension 1cm × 1cm × 2cm, you can build towers as shown in the picture. How high is a tower that is built in the same way with			
	10. Michael paints the following buildings made up of identical cubes. Their bases are made of 8 cubes. Which building needs the most paint?			28 blocks? (A) 9cm (B) 11cm (C) 12cm (D) 14cm (E) 17cm		
	(A) (B) (C)	(D)	(E)	18. Bridget folded a square sheet of paper twice, and then cut it twice as shown in the figure. How many pieces of paper will she get?		
		4 point problems		(A) 6 (B) 8 (C) 9 (D) 12	(E) 16	
	11. On each of three pieces of paper a three digit number is written. Two of the digits are covered. The sum of the three numbers is 826. What is the sum of the two covered digits?			19. Alex, Bob and Carl go for a walk every day. If Alex doesn't wear a hat, then Bob wears a hat. If Bob doesn't wear a hat, then Carl wears a hat. Today Bob is not wearing a hat. Who is wearing a hat?(A) Both Alex and Carl(B) Only Alex		
	(A) 7 (B) 8 (C)	9 (D) 10	(E) 11	(C) Only Carl (D) Neither Alex, nor Carl (E) It is not possible to	o determine.	
	12. Riri the frog usually eats 5 spiders a day. When Riri is very hungry, she eats 10 spiders a day. She ate 60 spiders in 9 days. How many days was she very hungry? (A) 1 (B) 2 (C) 3 (D) 6 (E) 9 13. Pia plays with a yardstick consisting of 10 sticks (see picture). Which of the following figures cannot be formed with this yardstick?			20. Each of the following pictures shows the net of a cube. Only one of the resulting cubes has a closed line on it. Which one? (A) (B) (C) (D) (E)		
				5 point problems	10/	
	(A) (B)	> (C) (D)	(E)	21. The cube shown in the figure has a positive integer written on e The products of the two numbers on opposite faces are the same the smallest possible sum of the six numbers on the cube? (A) 36 (B) 37 (C) 41 (D) 44		
	4. Five equal squares are divided into smaller squares. Which square has the largest black		22. Six identical black beads and three identical white beads are arranged on weighing scales as shown in the picture. What is the total weight of these nine beads?			
	(A) (B) (C)	(D)	(E)	(A) 100 g (B) 99 g (C) 96 g (D) 94 g	(E) 90 g	
	15. A big triangle is divided into equilateral triangles as in the figure. The side of the small gray triangle is 1 m. What is the perimeter of the big			23. Robert made 5 statements (A) - (E), exactly one of which is false. Which one? (A) My son Basil has 3 sisters. (B) My daughter Ann has 2 brothers.		

triangle?

(A) 15 m

(C) 18 m

(B) 17 m

(D) 20 m

(E) 21 m

5.-6. klases 5.-6. klases

(E) I have 5 children.

(C) My daughter Ann has 2 sisters. (D) My son Basil has 2 brothers.