

1st grade

December 1, 2019

School: \_\_\_\_\_

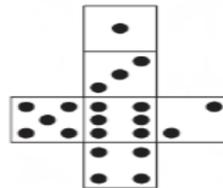
First name, Surname: \_\_\_\_\_

1) The age difference between two brothers is two years. At Mom's birthday, each of them gave them as many roses, as equal to their age. Mom received 8 roses. How old are the brothers? (1 point) ANSWER: \_\_\_\_\_

2) How many digits will it take to write numbers from 1 to 16? (1 point)

ANSWER: \_\_\_\_\_

3) If this picture is made into a cube, what is the number of dots that will be on top, if at bottom there are 3 dots? (1 point)



ANSWER: \_\_\_\_\_

4) There were 23 books on two shelves. We bought new books and put as many books on each shelf as there were at beginning. How many books are now on two shelves? (1 point)

ANSWER: \_\_\_\_\_

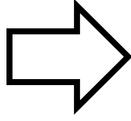
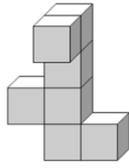
5) +   =4kg

 +  +  =13kg

 +  =34kg

 =? ANSWER: \_\_\_\_\_

6) Draw how this picture looks from above. (2 points)



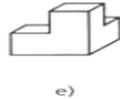
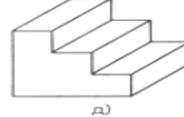
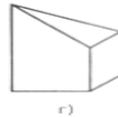
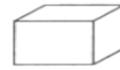
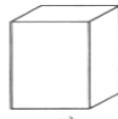
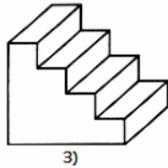
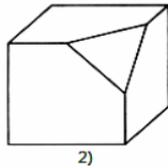
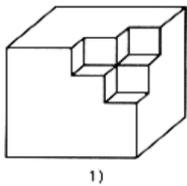
\_\_\_\_\_

7) Find the missing number: 3, 8, ?, 15, 17, 18 (2 points)

ANSWER: \_\_\_\_\_

8) Different parts were cut from the cubes. Find the missing details:

(3points: 1 point for each correct answer)



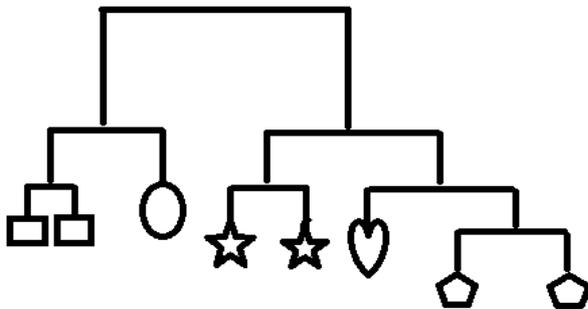
ANSWER: 1) \_\_\_\_\_ 2) \_\_\_\_\_ 3) \_\_\_\_\_



9) These sticks: Each stick weighs the same. Determine the weight of the above diagram if the letter M weighs 12g. (4 points)

ANSWER: \_\_\_\_\_

10) If a quadrangle weighs 20g, how much does a pentagon weigh? (3points)



ANSWER: \_\_\_\_\_

2nd grade

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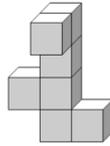
- 1) What is the sum of largest odd two-digit number and the smallest even three-digit number? (1 point)

ANSWER: \_\_\_\_\_

- 2) There were six corners, two of them were cut off. How many corners left? (1 point)

ANSWER: \_\_\_\_\_

- 3) Draw how this figure looks from above. (1 point)



ANSWER: \_\_\_\_\_

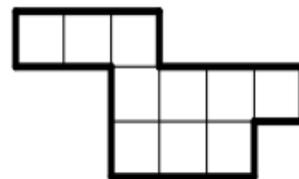
- 4) There were 23 books on two shelves. We bought new books and put as many books on each shelf as there were at beginning. How many books are now on two shelves? (1 point)

ANSWER: \_\_\_\_\_

- 5) 17 girls and 19 boys are playing in the schoolyard. What is the minimum number of pupils must join them, so that they can be divided into 8 groups with equal number of students in each group? (2 points)

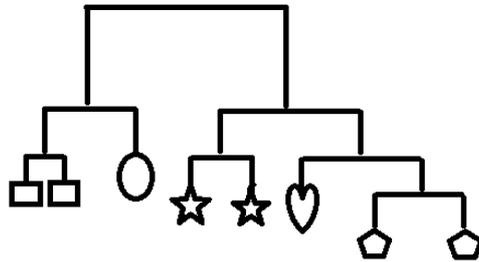
ANSWER: \_\_\_\_\_

- 6) Divide the figure shown in picture into two equal parts. (You can to cut not only along cell lines, but also diagonally.) (2 points)



ANSWER: \_\_\_\_\_

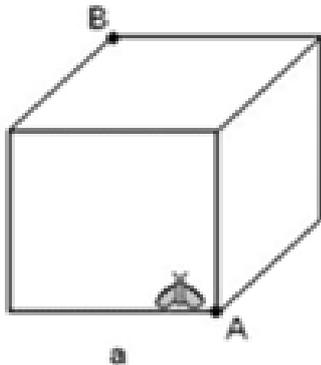
7) If a quadrangle weighs 20g, how much does a pentagon weigh? ( 2 points)



ANSWER: \_\_\_\_\_

8) Journey of a fly. A fly, departing from point A, can go around the four sides of the base of the cube in 4 minutes. How long does it take to get from A to the opposite point B.

(3 points)



ANSWER: \_\_\_\_\_

9) Solve the rebus:  $FEMO + F + E + M + O = 2019$  (different letters match to different numbers) (3 points)

ANSWER: \_\_\_\_\_

10) There are 26 letters in the English alphabet. Gloria encrypted the letters with two-digit numbers from 01 to 26 (if 12 is 12, if 6 is 06), so that if Z is 15, then A will be 16, and so on. If the letter L is encrypted with the number 18, then define the word "121506190726". (4 points)

ANSWER: \_\_\_\_\_

3rd grade

December 1, 2019

School: \_\_\_\_\_

First name, Surname: \_\_\_\_\_

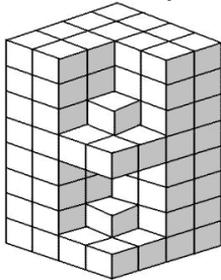
1) How many digits do you need to write numbers from 95 to 104? (1 point)

ANSWER: \_\_\_\_\_

2) Dory, John and Lucas are studying at the same school in 5, 7 and 9 grades. Dory does not study in grades 5 or 9 and John does not study in 5 grade. Find in which grades each student studies. (1 points)

ANSWER: \_\_\_\_\_

3) How many cubes do you need in order to construct such figure? (1 points)



ANSWER: \_\_\_\_\_

4) From the magic square  $3 \times 3$  in which the sum in each column, row and diagonal is the equal, some numbers were erased that were. What number was written instead of  $x$ ? (1 point)

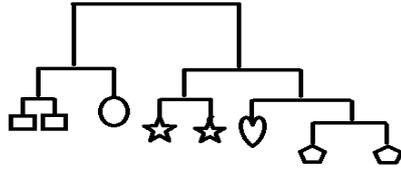
14	19	
	15	
$x$	11	

ANSWER: \_\_\_\_\_

5) Solve the rebus:  $FEMO + F + E + M + O = 2019$  (different letters match to different numbers). (2 points)

ANSWER: \_\_\_\_\_

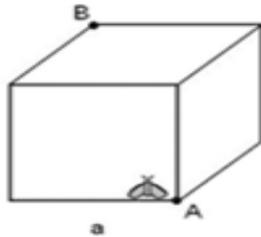
6) If a quadrangle weighs 20g, how much does a pentagon weigh? (2 points)



ANSWER: \_\_\_\_\_

7) Journey of a fly. A fly, departing from point A, can go around the four sides of the base of the cube in 4 minutes. How long does it take to get from A to the opposite point B.

(2 points)

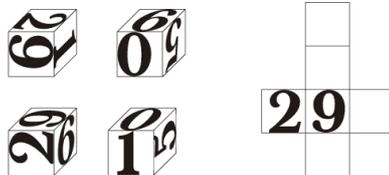


ANSWER: \_\_\_\_\_

8) There are 26 letters in the English alphabet. Gloria encrypted the letters with two-digit numbers from 01 to 26 (if 12 is 12, if 6 is 06), so if Z is 15, then A will be 16, and so on. If the letter L is encrypted with the number 18, then define the word "121506190726". (3 points)

ANSWER: \_\_\_\_\_

9) There is one cube, correct and rotated to different angles (the cube is visible from all four sides). Place the numbers correctly, when the cube is unwrapped: (3 points)



ANSWER: \_\_\_\_\_

10) Lucas and John counted the number of knights in picture by clockwise sequence, which are at the round table of Arthur King. The knight, who was the 7th for Lucas, turned out to be the 47th for John. The knight, who was 7th for John, turned out to be the 30th for Lucas. How many knights were therein total at the table of King Arthur?

ANSWER: \_\_\_\_\_

4th grade

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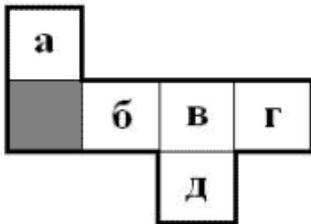
- 1) Michael and Jim decided to compete in the 100-meter race. When Michael runs 5 meters, Jim runs only 4 meters. How many meters will Jim run when Michael crosses the finish line? (1point)

ANSWER: \_\_\_\_\_

- 2) Adam Smith bought Apple shares for \$500. In occasion with the release of iPhone 11, Apple shares rose 2 times. Adam sold a quarter of his shares. How many dollars does Apple shares cost, which have the Adam? (1 point)

ANSWER: \_\_\_\_\_

- 3) Figure below is unwrapped cube. Thin lines are fold lines. Imagine that you are folding. Determine which side is the top if the black side is the bottom? (1 points)



ANSWER: \_\_\_\_\_

- 4) In a kindergarten in the group there are 25 children. 13 children took part in the competition for the «best picture», 17 children participated in competition for the best «clay doll». How many children participated in both competitions? (1point)

ANSWER: \_\_\_\_\_

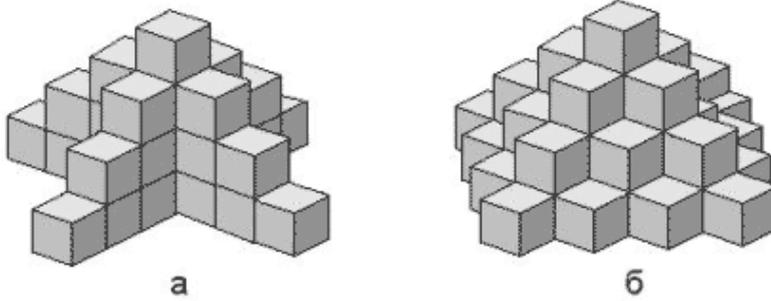
- 5) Sarah and Danny played a game in which 2 points are given for a victory and 1 point for a loss. Sarah won just three games, and Danny got 5 points overall. How many games did they play? (2 points)

ANSWER: \_\_\_\_\_

- 6) Solve the rebus: FEMO + F + E + M + O = 2019 (different letters correspond to different numbers). (2 points)

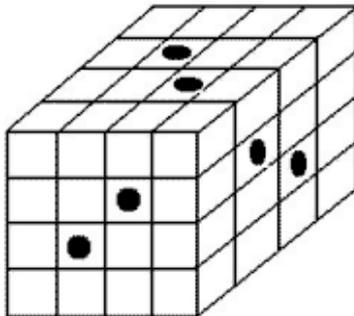
ANSWER: \_\_\_\_\_

7) How many cubes do you need in order to construct such figure? (2 points)



ANSWER: \_\_\_\_\_

8) A large cube made at of from small wooden cubes. 6 holes were drilled inside it, parallel to the edge. How many small cubes were left not damaged? (3 point)



ANSWER: \_\_\_\_\_

9) There are four children in a family. If we calculate the sum of the ages of the three of them, we get the following amounts of 22, 20, 17 and 25. Find the age difference between the oldest and the youngest of them. (3 points)

ANSWER: \_\_\_\_\_

10) In a group of 26 guys, some people know all the letters except letter “F”, which they simply skip when writing and others know all the letters except letter “E”, which they also skip. One day, a teacher asked 8 pupils to write the word “FMO”, 12 other pupils were asked to write the word “EMO”, and the rest - the word “FEMO”. The words “FMO” and “EMO” were written 10 times. How many students wrote their specific word correctly? (4 points)

ANSWER: \_\_\_\_\_