

## MATHEMATICAL LITERACY

*Instruction: You are offered the test items with one correct answer from four proposed ones.*

1. Determine the logical pattern and find  $a$ :

$$\langle 6|a \rangle$$

$$\langle 7|13 \rangle$$

$$\langle 8|10 \rangle$$

A) 9

B) 3

C) 8

D) 4

2. Find the logic. Which number satisfies the question mark?

7	1	4
18	12	15
?	2	5

A) 11

B) 8

C) 6

D) 9

3. Calculate median of the following numbers:

13, 18, 17, 29, 45, 11, 28, 15.

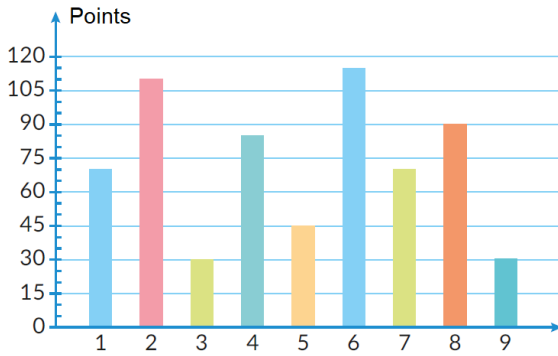
A) 17

B) 23

C) 17.5

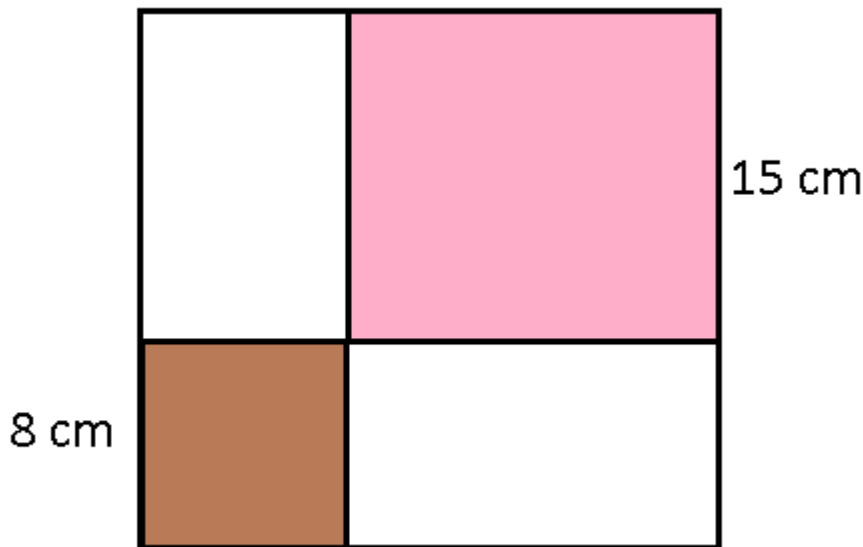
D) 19.5

4. The chart shows the points scored by Dastan in nine exams. Find the arithmetic mean of his results



- A)  $\approx 72$
- B)  $\approx 70$
- C)  $\approx 74$
- D)  $\approx 68$

5. From the paper given below Almas painted two squares and cut them. Find the area of the unshaded paper.



- A)  $120 \text{ cm}^2$
- B)  $150 \text{ cm}^2$
- C)  $180 \text{ cm}^2$
- D)  $240 \text{ cm}^2$

6. Dastan painted the  $\frac{7}{40}$  part of the room, then show the percentage of shaded part

- A) 17.5%
- B) 14.5%
- C) 14%
- D) 1.75%

7. Three brothers' average age is 13. The median age is 13. The average age of two elder brothers is 14. What is the age of the youngest brother?

- A) 14
- B) 11
- C) 15
- D) 9

8. The table below shows the average price of goods in a tenge at a various stores. Find the cheapest price of 2 notebooks, 2 smartphones and 1 computer at one store.

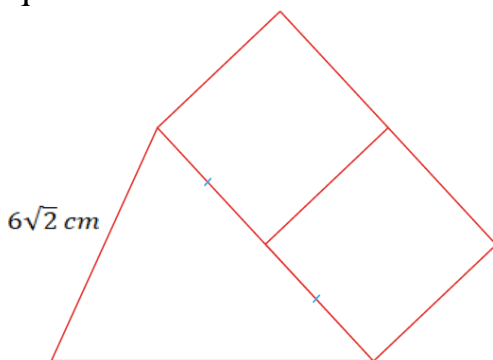
Store	Notebooks	Smartphone	Computer
T	350000	150000	640000
S	360000	140000	610000
M	350000	160000	630000
F	360000	180000	620000

- A) 1650000 tg
- B) 1610000 tg
- C) 1700000 tg
- D) 1640000 tg

9. At the shop Ainamkoz paid 2500 tg for 10 eggs and 5 kg potatoes. The price of 1 kg potato is 3 times more than the price of one egg. Then find the price of 30 eggs and 2 kg potatoes.

- A) 3000 tg
- B) 3300 tg
- C) 2800 tg
- D) 3600 tg

10. Calculate the perimeter of figure, consisting from one equilateral triangle and two squares



- A)  $42\sqrt{2}$  cm
- B)  $36\sqrt{2}$  cm
- C)  $24\sqrt{2}$  cm
- D)  $30\sqrt{2}$  cm

**MATHEMATICAL LITERACY TEST IS COMPLETED**