

1. Consider the following number patterns: 2, 9, 28, 65, 126, a. The value of a in the number pattern is ...
2. The areas of A, B, C, and D are 90 cm^2 , 120 cm^2 , and 36 cm^2 , respectively. What is the area of D?

| | |
|---|---|
| B | D |
| A | C |

3. At the end of 2018, as many as $\frac{1}{8}$ of the total teachers in an elementary school were women. At the beginning of 2019, the school accepted 4 male teachers, bringing the total number of male teachers to 16. The number of women teachers who taught at the elementary school at the end of 2018 was ...
4. The result of the operation of the following mixed numbers:

$$\left(\frac{1}{2} - \frac{1}{3}\right) \times 60\% + 0,5 \times 1,1$$
in decimal form...
5. If given a number pattern in the following table:

| | | |
|-----|-----|-----|
| 1 | 2 | 3 |
| 3 | 6 | 9 |
| 5 | 10 | 15 |
| ... | ... | ... |
| a | 54 | c |

Then $c \times a$ is...