

1. Remove parentheses and simplify:

a).  $(x + 2) : 3 + \left( \frac{1}{6}x + \frac{1}{12} \right) \cdot 4 =$  \_\_\_\_\_

b).  $\left( \frac{1}{2} - x \right) \cdot 2 + \left( 2x + \frac{1}{6} \right) \cdot 3 =$  \_\_\_\_\_

2. Calculate:

$2 \times 4 =$                    $2 \times (-4) =$                    $(-2) \times 4 =$                    $(-2) \times (-4) =$

$8 : 4 =$                    $(-8) : (-4) =$                    $(-8) : 4 =$                    $8 : (-4) =$

3. Solve the equations:

$|x + 4| = 2$

$|4x + 4| = 2$

$\left| \frac{1}{3}x - 2 \right| = 4$

$\left| \frac{1}{3}x - 2 \right| = -4$

4. Analyze relationships between dm, cm, mm, and their squares and cubes

5. Calculate:

$4 \times 6 =$

$\frac{1}{4} \times 6 =$

$4 : 6 =$

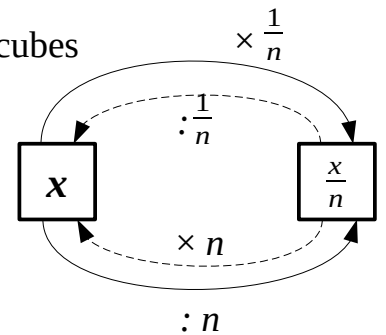
$\frac{1}{4} : 6 =$

$4 \times \frac{1}{6} =$

$\frac{1}{4} \times \frac{1}{6} =$

$4 : \frac{1}{6} =$

$\frac{1}{4} : \frac{1}{6} =$



6.  $\frac{2}{3}$  of marbles in a bag are red,  $\frac{1}{2}$  of the rest of them are blue, and the remaining marbles are green. What fraction of the marbles are green?

7. A peasant was selling eggs. The first customer came and bought  $\frac{1}{2}$  of all the eggs plus another egg. The second customer came and bought  $\frac{1}{2}$  of the remaining eggs plus another egg. The third customer came and bought the last remaining egg. How many eggs did the peasant bring to the market?

8. Plot a rhombus  $ABCD$  if point  $D \in BX$ . Record your algorithm.

$\bullet$   
 $A$

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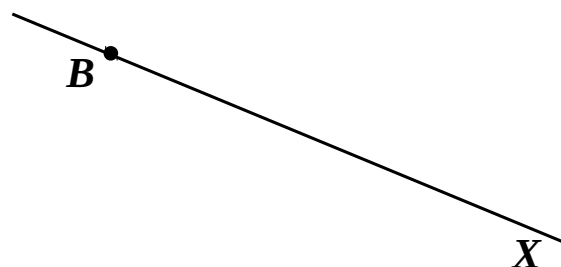
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9. Plot line  $m$  that is perpendicular to the line  $n$  and goes through point  $K$ .

$\bullet$   
 $K$

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