

1. Remove parentheses and simplify:

$$(10 - 3x + y) \cdot 4 + (2x - 4 - y) \cdot 6 = \underline{\hspace{10cm}}$$


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$$(2x + y - 12) \times 2 + 3 \cdot (y - 2x + 8) = \underline{\hspace{10cm}}$$


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2. Find ...

$$\frac{1}{5} \text{ of } 3 \text{ is}$$

$$\frac{2}{5} \text{ of } 3 \text{ is}$$

$$\frac{1}{5} \text{ of } \frac{1}{2} \text{ is}$$

$$\frac{2}{5} \text{ of } \frac{1}{2}w \text{ is}$$

3. Solve the equations in your notebook:

$$\frac{2}{5}x = 4$$

$$\frac{1}{5}x - 3 = 7$$

$$10 - \frac{3}{4}y = 4$$

4. Calculate:

$$\frac{5}{24} + \frac{7}{16} =$$

$$\frac{5}{24}x + \frac{7}{16}x =$$

$$\frac{5}{24} - \frac{7}{16} =$$

$$\frac{7}{16} - \frac{5}{24} =$$

**An absolute value of a number** *is the distance from the number to zero on a number line.*

$$|5| = 5; \quad |-5| = |5| = 5; \quad |7| = 7; \quad |-7| = |7| = 7$$

5.  $|-2| =$        $|4| =$        $|6 + 2| =$        $|7 - 5| =$

$|2| =$        $|-4| =$        $|-2 + (-6)| =$        $|5 - 7| =$

6. Make appropriate drawings to simplify and solve equations:

$$144 : (x + 7) = 6$$

$$14y - 5 = 2$$

$$(36 - x) \cdot 4 = 36$$

**Distributive property of division:**

$$(a + b) : c = a : c + b : c$$

7. Remove parentheses:

$$(6x + 21) : 3 = \underline{\hspace{10cm}}$$

$$(6x - 21) : 3 = \underline{\hspace{10cm}}$$

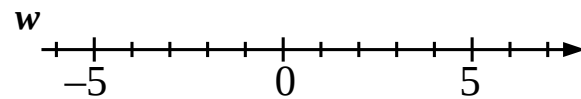
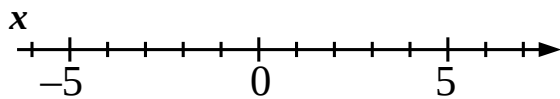
$$(16y + 28) : 4 = \underline{\hspace{10cm}}$$

$$(16y - 28) : 4 = \underline{\hspace{10cm}}$$

$$(8x + 1) : 2 = \underline{\hspace{10cm}}$$

$$(8x - 2) : 4 = \underline{\hspace{10cm}}$$

8. Find all numbers such that  $|x| = 2$ , and  $|w| = 3$



9. Find number  $y$  such that  $|y| = |x|$

