Math 4 Classwork #9

1. Remove parentheses and simplify:

$(10 - 3\boldsymbol{x} + \boldsymbol{y}) \cdot 4 + (2\boldsymbol{x} - 4 - \boldsymbol{y}) \cdot 6 =$ _____

_____

$(2\boldsymbol{x} + \boldsymbol{y} - 12) \times 2 + 3 \cdot (\boldsymbol{y} - 2\boldsymbol{x} + 8) =$ _____

_____

2. Find …

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

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

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

$\frac{2}{5}$ *of* $\frac{1}{2}w$ 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 *<u>is the distance from the number to zero on a number line.</u>* $|5| = 5$; $|-5| = |5| = 5$; $|7| = 7$; $|-7| = |7| = 7$

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

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

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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:

$(6x + 21) : 3 =$ _____

$(6x - 21) : 3 =$ _____

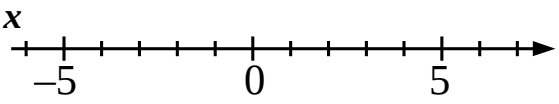
$(16y + 28) : 4 =$ _____

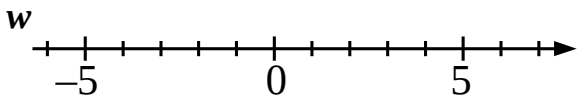
$(16y - 28) : 4 =$ _____

$(8x + 1) : 2 =$ _____

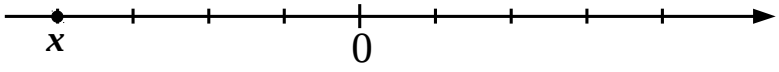
$(8x - 2) : 4 =$ _____

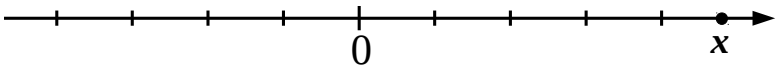
8. Find all numbers such that $|x| = 2$, and $|w| = 3$

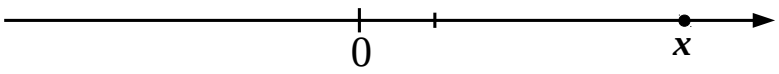




9. Find number y such that $|y| = |x|$







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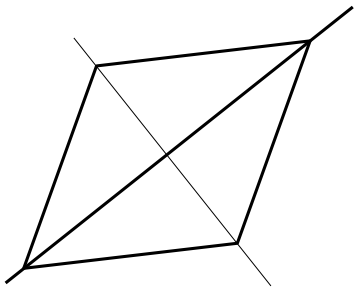
Property of a rhombus:
diagonals of a rhombus are <u>perpendicular</u>.



10. Plot a rhombus ***ABCD*** such that |***AB***| = ***x***

A

C

x

11. Plot a straight line ***m*** perpendicular to the line ***RT***.

R

T