

Homework #21

On a separate sheet of paper, complete the worksheet on solving equations.

Also

Complete the PEMDAS worksheet from class.

This will be graded for accuracy.

~~X~~
out of 4?

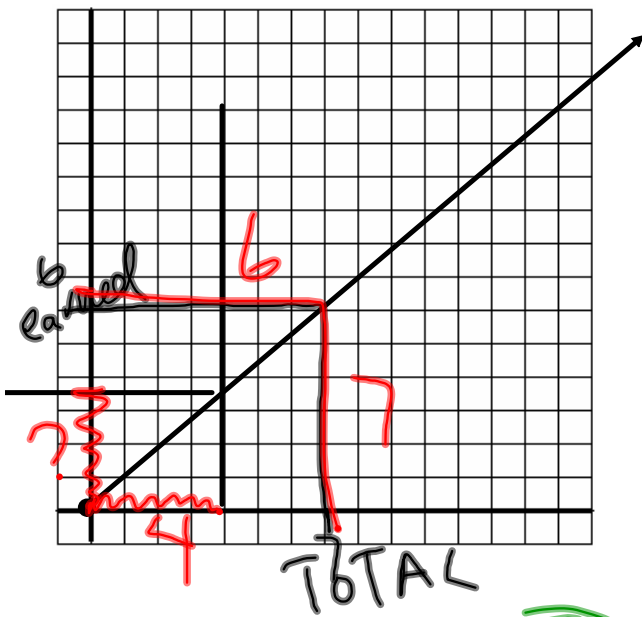
Factor Pairs
288
- 288
- 144
- 96
- 72
- 48
- 36
- 32
- 24
- 18
- 16

$$\frac{7.5}{7} = \frac{x}{4}$$

$$7x = 7.5(4)$$

$$7x = 30$$

$$x = \frac{30}{7} = 4\frac{2}{7}$$



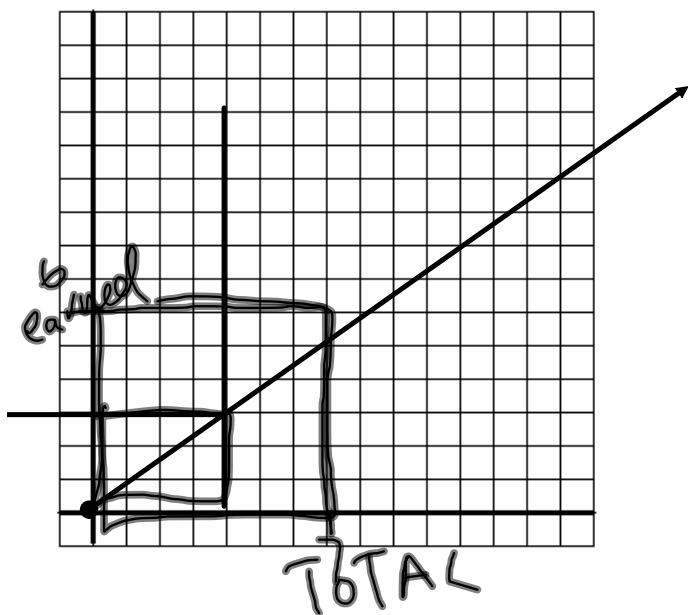
$$\frac{6}{4} =$$

$$\frac{6}{4}x = \frac{24}{4}$$

$$\frac{6}{4}x = 6$$

$$\frac{6}{6}x = \frac{6}{6} \cdot 4$$

$$x = 3\frac{3}{4}$$



$$(-5)^2 = 25$$
$$25 = 25$$

The image shows handwritten mathematical work on a page. A vertical line represents a number line with the number 50 written on it. To the left of 50, the number 12 is written. To the right of 50, there is a circled expression: $2x = 12 \cdot 5 = 30$. The number 5 is underlined in red. To the left of the number line, the equation $x = 12$ is written with "Divide" written vertically in red next to it. Below the number line, the equation $x = 12$ is written. To the right of the number line, the equation $\frac{2x}{5} = 12$ is written, with "Multiply" written vertically in red next to it. Below this, the equation $60 = 2x$ is written, with "Divide" written vertically in red next to it, and the final result $x = 30$ is written below that.

Solving Eqs

- ① Distribute
- ② $CLT \square CLT$
- ③ "Get" all variables on one side
- ④ Undo all add/sub w/ the opp.
- ⑤ Undo all mult/div w/ the opp

② CLT \square CLT

③ "Get" all variables on one side

$$\begin{aligned} 2x + 4 + 10x &= 5 \\ 12x + 4 &= 5 \end{aligned}$$

$$\begin{aligned} 2x + 4 &= 10x + 5 \\ -2x & \quad -2x \\ 4 &= 8x + 5 \end{aligned}$$

1. $2x - 12 + 4x = 3x + 3 + x$

Directions: Please solve for the unknown in the following equations. If there is no solution, please indicate so by stating "null set".

1. $2x - 12 + 4x = 3x + 3 + x$

~~$4x + -4x$~~

~~CLT □ CLT~~
 ~~$x = x$~~

$$6x - 12 = 4x + 3$$

~~$-4x$~~ ~~$-4x$~~

$$2x - 12 = 3$$

$+12$ $+12$

$$\frac{2x}{2} = \frac{15}{2} \quad X = 7.5$$

