

Warm-Up

February 20, 2020

$$1) \quad \overset{(21)}{\frac{2w}{3}} = \overset{(21)}{12} + \overset{(21)}{\frac{2w}{7}}$$

LCM = 21

$$\frac{42w}{3} = 252 + \frac{42w}{7}$$

$$14w = 252 + 6w$$

$$\frac{8w}{8} = \frac{252}{8}$$

$$w = 31.5$$

$$4(1.5a - 3.2) = 3.5(1.5a + 4)$$

$$a - 12.8 = 5.25a + 14$$

$$0.75a - 12.8 = 14$$

$$\frac{0.75a = 26.8}{0.75 \quad 0.75}$$

$$a = 35.7$$

Solve and graph the following:

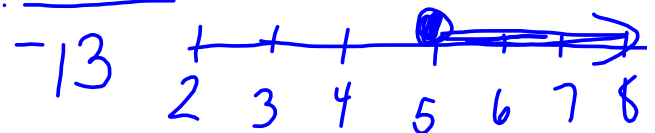
$$6(5 - x) \leq 7(x - 5)$$

$$30 - 6x \leq 7x - 35$$

$$30 - 13x \leq -35$$

$$\frac{-13x}{-13} \leq \frac{-65}{-13}$$

$$x \geq 5$$



$$-5x + 4(1-3x) > 72$$

$$-5x + 4 - 12x > 72$$

$$-5x - 12x + 4 > 72$$

$$-17x + 4 > 72$$

$$-17x + 4 - 4 > 72 - 4$$

$$-17x > 68$$

$$\frac{-17x}{-17} \downarrow \frac{68}{-17}$$

$$x < -4$$

The Telegraph Journal newspaper can be delivered to your house for \$0.70 per copy plus \$25.00 yearly subscription fee. The Globe and Mail newspaper can be delivered to your house for \$0.75 per copy plus a \$20.00 yearly subscription fee.

- A. Write a let statement to represent the variable.

Let "n" represent the number of copies of newspaper

- B. Write an expression for the cost of each newspaper.

$$\begin{array}{l} \text{T.J} \quad 0.70n + 25 \\ \text{G.M} \quad 0.75n + 20 \end{array}$$

- C. Determine how many copies are delivered for the Globe and Mail to be more expensive than the Telegraph Journal.

$$\begin{array}{l} \text{G.M} > \text{TJ} \\ 0.75n + 20 > 0.70n + 25 \\ 0.05n + 20 > 25 \\ \frac{0.05n}{0.05} > \frac{5}{0.05} \quad n > 100 \end{array}$$

Test Practice

Page 308 3, 4, 7

Page 309 8, 10, 11, 12, 15, 16

Page 310 2, 3, 4

Answers Page 519

Extra Practice Worksheet

