

December 4, 2014

5th
6th

Starter

Solve each.

$$\textcircled{1} \quad \frac{2k}{2} = \frac{-24}{2}$$
$$k = -12$$

$$\textcircled{2} \quad \frac{-15}{-3} = \frac{-3k}{-3}$$
$$5 = k$$

$$\textcircled{3} \quad \frac{c}{-7} = 11 \cdot 7$$
$$c = -77$$

$$\textcircled{4} \quad -13 = \frac{x}{32} \cdot 32$$
$$-416 = x$$

$$\frac{32}{6} = \frac{32}{6}$$

12/4 - Solving One-Step Multiply/divide Equations with Rational Numbers (Fractions)

How would you get the variable by itself in each of these situations?

Multiply by the reciprocal of the coefficient

$$n + 5$$

$$n - 5$$

$$\frac{1}{2}n \cdot \frac{2}{1}$$

$$n + (-5)$$

$$n + (+5)$$

$$\frac{2}{3}n \cdot \frac{3}{2}$$

$$\frac{5n}{5}$$

$$\frac{n}{5} \cdot 5$$

$$-1\frac{1}{4}n$$

$$-\frac{5}{4}n \cdot \frac{4}{5}$$

Solve these...

Remember:

1. find the center
2. find the variable
3. get the variable by itself
4. make the variable positive

$$\begin{aligned} \frac{-20}{6} &= \cancel{6k} \\ -3\frac{2}{6} &= k \\ 6 \overline{)20} & \quad -3\frac{1}{3} = k \\ \underline{-18} & \\ \frac{2}{2} & \end{aligned}$$

$$\begin{aligned} \frac{\cancel{6}^2}{1} \cdot \frac{-2}{\cancel{3}} &= \frac{v}{\cancel{6}} \cdot \cancel{6} \\ -4 &= v \end{aligned}$$

$$\begin{aligned} \cancel{\frac{1}{3}} \cdot \frac{\cancel{3}}{5} n &= \frac{\cancel{6}}{35} \cdot \frac{\cancel{1}}{\cancel{3}} \\ n &= \frac{6}{7} \end{aligned}$$

$$\frac{-18b}{-18} = \frac{-4}{-18} \div 2$$
$$b = \frac{2}{9}$$

$$\frac{4}{4} \cdot \frac{1}{4}c = \frac{-5}{6} \cdot \frac{2}{1}$$

$$c = -\frac{10}{3}$$

$$c = -3\frac{1}{3}$$

$$\begin{array}{r} 3 \overline{) 10} \\ \underline{-9} \\ 1 \end{array}$$

Homework

Yellow WS 4

Due Mon.

