

# December 4, 2014<sup>4<sup>th</sup></sup>

## Starter

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Solve each.

①  $2k = -24$       ②  $-15 = -3k$

③  $\frac{c}{-7} = 11$

④  $-13 = \frac{x}{32}$

## 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

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

$$\begin{aligned} \frac{1}{6} \cdot \frac{-2}{3} &= \frac{v}{6} \\ -\frac{2}{9} &= \frac{v}{6} \\ -4 &= v \end{aligned}$$

$$\begin{aligned} \frac{-1}{5} \cdot \frac{-3}{5} n &= \frac{18}{35} \cdot \frac{-1}{5} \\ n &= -\frac{6}{7} \end{aligned}$$

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

$$\frac{4}{7} \cdot \frac{1}{4}c = \frac{-5}{6} \cdot \frac{2}{1}$$
$$C = \frac{-10}{3}$$
$$C = -3\frac{1}{3}$$

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

**Homework**

Yellow WS 4

**Due** Monday