

# Equations w/ Rational Coefficients 10/19

Rational - A Fraction or a decimal

Coefficients - The # before a variable

→ Divide BOTH Sides by the Coefficient.

Oct 15-9:37 AM

Decimals - Solve for x.

$$\textcircled{1} \quad \frac{3.6}{0.6} = \frac{0.6x}{0.6}$$
$$\boxed{x=6}$$

$$\textcircled{2} \quad \frac{2.4x}{2.4} = \frac{48}{2.4}$$
$$\boxed{x=20}$$

Oct 15-11:03 AM

## Fractions - Solve for x

$$\textcircled{1} \quad \frac{1}{5}x = 12$$

$$\frac{1}{5} \quad \frac{1}{5}$$

$$x = 60$$

$$12 \div \frac{1}{5}$$

$$12 \cdot 5$$

$$60$$

\* Dividing by a Fraction  
is the same as  
Multiplying by the reciprocal.

$$\textcircled{2} \quad -\frac{2}{9}x = 4$$

$$\frac{-2}{9} \quad \frac{-2}{9}$$

$$x = -18$$

$$4 \div -\frac{2}{9}$$

$$4 \cdot \frac{9}{2}$$

$$\frac{4 \cdot 9}{1 \cdot 2} = \frac{-36}{2} = -18$$

Oct 15-11:07 AM

$$\textcircled{3} \quad \frac{4\frac{1}{6}}{3\frac{1}{3}} = \frac{3\frac{1}{3}}{3\frac{1}{3}}x \rightarrow \text{Turn mixed \#s into improper Fractions}$$

$$x = 1\frac{1}{4}$$

$$4\frac{1}{6} \quad 3\frac{1}{3}$$

$$\frac{25}{6} = \frac{10}{3}x$$

Oct 15-11:12 AM