2.1 Solve Equations w/ Rational Coefficients
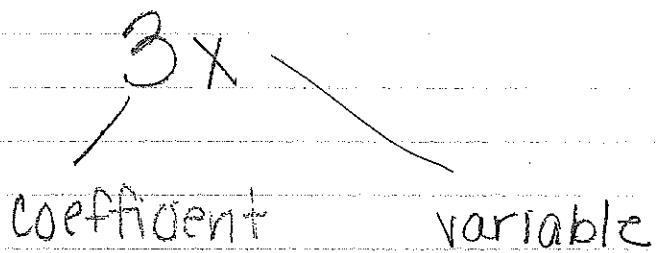
Inverse Property of Multiplication

$$\frac{7}{8} \times \frac{8}{7} = 1$$

$$3x$$

coefficient   variable

example $\frac{3}{4}c = 18$

$$\frac{4}{3} \times \frac{3}{4}c = \frac{18}{1} \times \frac{4}{3} = \frac{72}{3} = 24$$

$$\boxed{c = 24}$$

example $1\frac{1}{2}x = 16\frac{1}{2}$

$$\frac{3}{2}x = \frac{33}{2}$$

$$\frac{2}{3} \times \frac{3}{2}x = \frac{33}{2} \times \frac{2}{3} = \frac{22}{2} = 11$$

$$\boxed{x = 11}$$

2

w/ decimals

$$3.15 = 0.45n$$

$$\frac{3.15}{.45} = \frac{0.45n}{.45}$$

$$\boxed{7 = n}$$