3 - 3 Solving Equations by Using Multiplication or Division

Multiplication Property of Equality:

Ex:

Division Property of Equality:

Ex:

Goal is to get the variable by itself

"one x"

Ex:
$$\frac{20}{20} = 4.20$$

Ex:
$$\frac{x}{30} = \frac{7}{10} \cdot \frac{30}{10}$$

$$X = \frac{210}{10}$$

$$X = 21$$

Ex:
$$2\frac{1}{4}g = 1\frac{1}{2}$$
 $4 \cdot 4 \cdot 9 = \frac{3}{2} \cdot 4 \cdot 9 = \frac{3}{2}$
 $9 = \frac{12}{18} \cdot 9 = \frac{3}{3}$

Ex:
$$-3\frac{3}{8}$$
 k = $1\frac{4}{5}$

$$\frac{1}{28} \cdot - \frac{1}{8} \cdot \frac{7}{135} \cdot \frac{9}{5} \cdot \frac{-8}{27}$$

$$K = \frac{7}{135} \cdot \frac{8}{15}$$

Ex:
$$\frac{42 = -6m}{-6}$$

$$\frac{-7 = m}{m = -7}$$

Ex: Negative eighteen times a number is - 198.

$$\frac{-18\alpha = -198}{-18}$$

Homework:

p.138 #14-32 even, 33-36