5 - 3 Multiply or Divide to Solve Equations

Still want to "undo" the operations, just like when we added/subtracted, but now we will multiply/divide.

Ex:
$$\frac{4x}{4} = \frac{48}{4}$$

$$X = 12$$

Ex:
$$\frac{x}{3} = 11 \cdot 3$$

Ex:
$$-126 = 9x$$

Ex:
$$36 = -5 \frac{x}{4}$$

reciprocals: two numbers whose product is I

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

Ex:
$$\frac{2}{3}$$
 and $\frac{3}{2}$

Find the reciprocal of...

a.)
$$\frac{1}{3}$$
 $\frac{3}{1}$ $\frac{3}{1}$

b.)
$$\frac{5}{2}$$
 $\frac{2}{5}$

c.)
$$-2$$
 $\left(\frac{1}{-2}\right)$

Ex:
$$\frac{5}{2} \cdot \frac{2}{5}$$
 y = $\frac{6}{5}$

$$y = \frac{30}{2}$$

Ex:
$$8 = \frac{3}{4} \cdot \frac{4}{3} \times \frac{24}{4} = \times$$

Homework:

5-3 WS (odds)