

Warm Up-

1. $r + 3 = 10$

$$\begin{array}{r} -3 \\ -3 \\ \hline r = 7 \end{array}$$

2. $x - 6 = 4$

$$\begin{array}{r} +6 \\ +6 \\ \hline x = 10 \end{array}$$

3. $-4 + y = 1$

$$\begin{array}{r} +4 \\ +4 \\ \hline \end{array}$$

4. $5 + x = -2$

$$\begin{array}{r} -5 \\ -5 \\ \hline x = -7 \end{array}$$



Last class we talked about inverse operations or operations that undo each other. Write down the inverse operations for:

Addition Subtraction

Subtraction Addition

Multiplication Division

Division Multiplication

Now that you remember inverse operations,
try to solve the following:

Ex 1: $\frac{\cancel{2}x}{\cancel{2}} = \frac{6}{2}$

$$\boxed{x = 3}$$

Ex 2: $\frac{\cancel{6}x}{\cancel{6}} = \frac{18}{6}$

$$\boxed{x = 3}$$

Ex 3: $\frac{\cancel{3}x}{\cancel{3}} = \frac{21}{3}$

$$x = 7$$

Can we solve equations with Negative Numbers?

Ex 1: $\frac{-3x}{-3} = \frac{6}{-3}$

$$x = -2$$

Ex ⁵~~2~~: $\frac{4x}{4} = \frac{-12}{4}$

$$x = -3$$

Ex ⁶~~3~~: $\frac{-3x}{-3} = \frac{9}{-3}$

$$x = -3$$

Division?

Ex ⁷~~1~~:

$$\cancel{2} \cdot \frac{x}{\cancel{2}} = 6 \cdot 2$$

$$\boxed{X = 12}$$

Ex 2:

$$\cancel{5} \cdot \frac{x}{\cancel{5}} = 4 \cdot 5$$

$$x = 20$$

Ex 3:

$$\cancel{4} \cdot \frac{x}{\cancel{4}} = 9 \cdot 4$$

$$X = 36$$

Division? And Negative Numbers?

Ex 1:

$$\frac{x}{-2} = 8$$

Ex 2:

$$\frac{x}{3} = -4$$

Ex 3:

$$\frac{x}{-4} = 6$$

