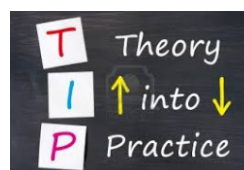


Warm Up:

~~Translate and Solve~~

a) The quotient of 24 and a number is 6.

④ $\frac{24}{x} = 6$

b) The product of $-\frac{1}{2}$ and a number equals 12.

$$-\frac{1}{2}x = 12$$

④ -24

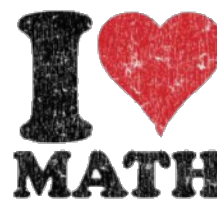
practice.

Solve and check the equation shown below.

$$\begin{array}{r} 21 = k + 35 \\ -35 \quad -35 \\ \hline -14 = k \end{array}$$



Solving 1-Step Equations w/ Multiplication & Division



Solve and check each of the following.

1) $2x = -16$

$x = -8$

$2(-8) \stackrel{?}{=} -16 \checkmark$

2) $\frac{x}{-7} = (10)(-7)$

$x = -70$



$$\begin{array}{l} -3z = 93 \\ \hline z = -31 \end{array}$$



$$\begin{array}{l} 3(7) - \left(\frac{y}{3}\right) = 3 \\ \hline 21 = y \end{array}$$





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Mixed Practice!

Solve and check each of the equations shown below.

$$\begin{array}{l}
 1. \quad \frac{f}{3} = 4 \\
 \cdot \quad \underline{3 \quad 3} \\
 f = 12 \\
 \\
 3. \quad -8\left(\frac{z}{-8}\right) = 10 \\
 \cdot \quad \underline{-8 \quad -8} \\
 z = -80
 \end{array}$$

$$\begin{array}{l}
 2. \quad 12y = 48 \\
 \div 12 \quad \div 12 \\
 \hline
 y = 4 \\
 \\
 4. \quad \frac{-4}{-1} = \frac{-1a}{-1} \\
 \hline
 4 = a
 \end{array}$$

Name: _____ **Exit Ticket**—complete on separate paper (hand-out)

Directions: INDEPENDENTLY solve each equation below. Write your answer on the line provided.

1. $5 + w = 17$ _____

2. $-32 = x - 7$ _____

3. $2b = 64$ _____

4. $13 = \frac{a}{-2}$ _____

Directions: Translate the following sentence, then solve.

WARM UP

1. Four times a number is the same as eight

2. Six less than a number is equal to negative ten

3. \div The quotient of a number and seven is eight

1) $4x = 8$
 $\frac{4x}{4} = \frac{8}{4}$
 $x = 2$

2) $-10 = a - 6$
 $\frac{\boxed{a} - 6}{+6} = \frac{-10}{+6}$
 $a = -4$

3) $\frac{x}{7} = 8$
 $\frac{x}{7} \cdot 7 = 8 \cdot 7$
 $x = 56$

Warm Up: $\sqrt{-256}$
 $10 \sqrt{-\frac{2}{5}}$

$$\begin{array}{r}
 1. \quad r - 3.4 = 9.6 \\
 \hline
 +3.4 \quad +3.4 \\
 \hline
 r = 13
 \end{array}$$

$$\begin{array}{r}
 3. \quad -\frac{4}{5} = t + \frac{3}{5} \\
 \hline
 -\frac{3}{5} \quad -\frac{3}{5} \\
 \hline
 = +
 \end{array}$$

-236

Practice!
 16. Use the equations shown below.

$$\begin{array}{r}
 -25 \\
 2. \quad -\frac{2}{5}s = 10 \\
 \hline
 -\frac{2}{5} \quad -\frac{2}{5} \\
 \hline
 s = -25
 \end{array}$$

$$\begin{array}{r}
 d \\
 4. \quad \frac{5.2}{5.2} = -8 \\
 \hline
 d = -41.6
 \end{array}$$



1) Austin High School had an enrollment of 1,428 students. In may, they graduated 418 students. How many students are still enrolled in the school? Write an equations then solve. Show your work!

$$1,428 - 418 = X$$

$$X = 1010$$

2) Ashley saves \$32 from her weekly paycheck for her college education. This is $\frac{1}{5}$ of her weekly salary. How much does she earn each week? Write an equations then solve. Show your work!

$$\frac{\cancel{\$X}}{\frac{1}{5}} = \frac{32}{\frac{1}{5}}$$

$$X = 160$$