

Algebra 1 11/30

**Warm Up
AIMS Web
Practice #3**

2-2 Solving One-Step Equations

I can solve equations and interpret the solution in the context of the problem

Solve an Equation

the process of finding a value of the variable that makes the equation true (find the answer)

Equivalent Equations

two or more equations that have the same solution

Inverse Operations

operations that undo each other (opposite operations) and are used to solve equations

addition and subtraction multiplication and division

I can solve equations and interpret the solution in the context of the problem

Ex. 1 Solve each equation

$$\begin{array}{r} \text{A. } 113 = g - 25 \\ +25 \quad +25 \\ \hline 138 = g \end{array}$$

$$g = 138$$

$$\begin{array}{r} \text{B. } j - 87 = -3 \\ +87 \quad +87 \\ \hline j = 84 \end{array}$$

I can solve equations and interpret the solution in the context of the problem

Ex. 2 Solve each equation

A. $27 + k = 30$
 $\begin{array}{r} \cancel{27} + k = 30 \\ -\cancel{27} \quad -\cancel{27} \\ \hline k = 3 \end{array}$

B. $-12 = p + 16$
 $\begin{array}{r} -12 = p + 16 \\ -16 \quad -16 \\ \hline -28 = p \\ p = -28 \end{array}$

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Ex. 3 Solve each equation

A. $\frac{-3r}{-3} = \frac{39}{-3}$

$r = -13$

B. $\frac{x}{2} = 15$

$x = 30$

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Ex. 4 Solve each equation

$$\text{A. } \frac{2}{5}k = 6 \cdot \frac{5}{3}$$
$$k = \frac{30}{3} \quad \boxed{k = 10}$$

$$\text{B. } -\frac{1}{4} = \frac{2}{3}b \cdot \frac{3}{2}$$
$$-\frac{3}{8} = b \quad \textcircled{b = -\frac{3}{8}}$$

I can solve equations and interpret the solution in the context of the problem

Ex. 5 Allie is making a stained glass window. Her pattern requires that one fifth of the glass should be blue. She has 288 square inches of blue glass. If she plans to use all of the blue glass, how much glass will she need for the whole project?

$X =$ amount of glass

$288 =$ blue

$$\frac{\cancel{5}}{1} \cdot \frac{1}{\cancel{5}} X = 288 \cdot \frac{5}{1}$$

$$X = 1440 \text{ sq in}$$

She will 1440 sq. inches of glass
in all.

I can solve equations and interpret the solution in the context of the problem

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