

NAME _____

DATE _____

Module 3 Solving Linear Equations
of One Variable

Lesson 2 Solving Equations by Inspection



**guided
notes**

Lesson Objectives

- Solve algebraic equations “by inspection.”
- Write the solution to an equation in proper notation.
- Check the solutions to an equation.

Instead of a blank in an equation, we can use a _____ to represent an unknown number.

Two examples of variables are _____.

A solution of an equation is a number that makes the equation _____.

Solving an equation by looking and reasoning is called solving by _____.

To check a solution, substitute it for the variable in the equation. If this produces a true statement, then the solution is correct.

1 Solve: $10 + b = 15$

Solution: $b =$ _____

Check: $10 + b = 15$

$10 +$ _____ $\stackrel{?}{=} 15$

$15 = 15 \checkmark$

Triple means _____ times.

2 Solve: $4k = 28$

Solution: $k =$ _____

Check: $4k = 28$

$(4)($ _____ $) \stackrel{?}{=} 28$

$28 = 28 \checkmark$

Example: $\frac{18}{C} = 3$

Solution: $C =$ _____

Check: $\frac{18}{C} = 3$

$3 = 3 \checkmark$

