Name: ____

Solving One-Step Equations

Addition and Subtraction

Balance both sides of the equation by using inverse operations to get the variable alone and find its value.

examples:
$$x + 4 = 12$$
 $\frac{-4}{}$

$$x = 8$$

$$d - 7 = 10$$

$$d = 17$$

*Be sure to make the same change to **both** sides of the equal sign.

Solve each equation to find the value of the variable.

1.
$$25 = y + 20$$

4.
$$g - 21 = 6$$

5.
$$h - 9 = 7$$

6.
$$b - 14 = 6$$

11.
$$2 + a = 11$$

12.
$$k + 17 = 30$$

Name: _____

Basic Algebra

Determine the value of the variable in each equation.

1.
$$a + 5 = 9$$

2.
$$15 - c = 12$$



4.
$$\frac{45}{d} = 5$$

6.
$$\frac{t}{7} = 8$$

7.
$$6b = 66$$

8.
$$20 - g = 6$$

11.
$$\frac{48}{4} = m$$

13.
$$\frac{16}{h} = 1$$

15.
$$\frac{121}{j} = 11$$

$$\star$$
 4+f=13-2 \star 5+3=4d

$$\star$$
 5+3=4d

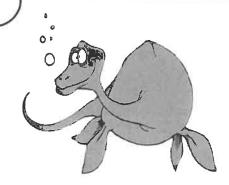
Name: _____

Basic Algebra

Determine the value of the variable in each equation.

1.
$$6 + a = 12$$

2.
$$7 - b = 2$$



3.
$$11 + 14 = c$$

4.
$$\frac{24}{d} = 3$$

6.
$$\frac{f}{7} = 7$$

9.
$$6 + i = 23$$

10.
$$j - 17 = 7$$

11.
$$\frac{42}{7} = k$$

13.
$$\frac{72}{n} = 9$$

14.
$$33 + 66 = p$$

15.
$$\frac{q}{8} = 5$$

$$\star \qquad 5+r=14-3$$

$$\star$$
 11 + 4 = 3s

Name:

Writing One-Step Equations

Write an equation to match each situation.	
1.	Abbie is going out for pizza with her friends. For \$60 total, they can buy ρ pizzas. Each pizza costs \$12.
	Equation:
2.	Mr. Harris is buying notebooks for his students. He buys 24 notebooks for <i>d</i> dollars each and spends a total of \$48.
	Equation:
3.	Jada scored 15 points in one basketball game and ρ points in another. Her two-game total is 34 points.
	Equation:
4.	Max earned \$18 mowing lawns this week. If he spends \$4 on ice cream, he will have \emph{d} dollars left.
	Equation:
5.	Ben found 26 seashells on the beach. He gave his sister s seashells and now he has 14 left.
	Equation:

Writing One-Step Equations

6.	Mrs. Johnson is collecting flowers from her garden. She has 8 flowers in a vase and she picks f more for a total of 20 flowers.
	Equation:
7.	Mrs. Fritz is buying books for her classroom library. She buys <i>b</i> books for \$7 each for a total of \$63.
	Equation:
8.	Jackson had 32 video games. He gave his friend 8 video games and now has g games left.
	Equation:
9.	Brianna is driving to visit her grandmother. She needs to travel 23 miles total. She has already driven 6 miles and needs to go m more.
	Equation:
	Erik is taking his friends to an amusement park for his birthday. He spends a total of \$84 for <i>t</i> tickets. Each ticket costs \$14.
	Equation: