

Name: \_\_\_\_\_

M3L8

Date: \_\_\_\_\_

Accordino-Math 7

Period: \_\_\_\_\_



## Lesson 8: Solving Two-Step Equations Bellringer



1) Which expression is equivalent to the expression below:

$$g + g + g + g + g + g$$

- a.  $6 + g$
- b.  $g^6$
- c.  $6g$
- d.  $\frac{g}{6}$

2) Which equation has the solution  $x = 2$ ?

- a.  $2x - 3 = 19$
- b.  $3x + 2 = 8$
- c.  $4x - 4 = -4$
- d.  $5x + 1 = 10$

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## Lesson 8: Solving Two-Step Equations Notes

### **Let's Think:**

What value of  $x$  would make the below equation true?

$$2x - 5 = 13$$

The goal of solving an equation is to \_\_\_\_\_.

In other words, to get the variable all by itself so we can determine what number it is.

To do this we will use \_\_\_\_\_ or operations that undo each other.

The inverse operation of addition is \_\_\_\_\_.

The inverse operation of subtraction is \_\_\_\_\_.

The inverse operation of multiplication is \_\_\_\_\_.

The inverse operation of division is \_\_\_\_\_.

### **Solving Two-Step Equations**

To solve two step equations, you will need to use two inverse operations. They must happen in a specific order!

1.

2.

**Example 1)**  $6x + 5 = 23$

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**Example 2)**  $\frac{x}{6} + 6 = 23$

**Example 3)**  $-10 = \frac{x}{5} - 1$

You Try!

Solve and check each equation.

1.  $-3g + 5 = 17$

3.  $13 = 5m - 2$

2.  $9 = 4a + 13$

4.  $-\frac{x}{6} + 6 = 23$

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**Math**

**Homework:**

**Solve and verify your solution for each equation below:**

1)  $6 = \frac{a}{4} + 2$

2)  $-6 + \frac{x}{4} = -5$

3)  $9x - 7 = -7$

4)  $0 = 4 + \frac{n}{5}$

**Review:**

5. Which expression represents the sum of  $(2x - 5y)$  and  $(x + y)$ ?

- a.  $3x - 4y$
- b.  $3x - 6y$
- c.  $x - 4y$
- d.  $x - 6y$

6. Which of the following integers represents a negative sum?

- a.
- b.
- c.
- d.

7. Which of the following integers represents a negative product?

- a.
- b.
- c.
- d.

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## Lesson 8: Solving Two-Step Equations Exit Ticket



1. What is the solution of the equation below?

$$3x + 3 = 12$$

- a.  $x = 5$
- b.  $x = 3$
- c.  $x = 4$
- d.  $x = 6$

2. Solve for  $v$  in the equation below then verify your solution through substitution:

$$3v + 2 = 32$$