

CSS: Solve linear equations in one variable.

Name: _____ Date: _____ Per.: _____

LT Pre Test

Directions: Show what you know by completing the problems below. Make sure to show all work. You should attempt every problem, some of these problems you should know.

1. What is a coefficient of an equation? Use an example to help you define this word.

2. Describe and give an example of like terms in an equation.

3. Explain the steps involved in solving the following equation: $7 = 3x - 5$

4. Explain the steps involved in solving the following equation: $3x + 2 = 8x - 13$

CSS: Solve linear equations in one variable.

5. Write an equation to match the relationship.

The amount of money you make depends on how many hours you work. Write an equation to show this relationship if you are making \$12.50 an hour.

6. Simplify the following expression:

$$3x - 5 + 2x + 1$$

7. Simplify the following expression:

$$-3t + 10 + 8t$$

8. Expand the following expression:

$$6x + 2$$

9. Simplify the expression:

$$4(2x - 8)$$

10. Solve the following equation:

$$3x - 5 + 2x + 1 = 24$$

11. Solve the following equation:

$$-40 = -3t + 10 + 8t$$

12. Solve the following equation:

$$6x + 2 = -3x - 25$$

13. Solve the following equation:

$$-16 = 4(2x - 8)$$

14. Give examples of equation for the following situation and explain how you know:

a. when there is only one solution

b. when there is no solution

c. when there are infinite solutions

CSS: Solve linear equations in one variable.