

## Study Guide Two Step Equation Test

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation. Show your steps and your process on another sheet of paper. For each word problem: define your variable, write the equation, solve the equation and write the answer statement.**

1)  $-3 - 6n = 69$

2)  $\frac{10 + x}{6} = 1$

3)  $8 = \frac{n + 2}{3}$

4)  $12k - 5 = -161$

5)  $\frac{x}{5} - 10 = -12$

6)  $-12 + 11x = -221$

7)  $4 + 10n = 164$

8)  $\frac{a - 12}{3} = -3$

9)  $\frac{n}{5} - 11 = -14$

10)  $-11 + \frac{x}{2} = -5$

11) How old am I if 500 reduced by 2 times my age is 338?

12) Maria won 50 pieces of gum playing hoops at her school's game night. Later, she gave two to each of her friends. She only has 8 remaining. How many friends does she have?

13) Eduardo spent half of his weekly allowance on clothes. To earn more money his parents let him clean the oven for \$8. What is his weekly allowance if he ended with \$17?

14) Half of your baseball card collection got wet and was ruined. You bought 13 cards to replace some that were lost. How many did you begin with if you now have 25?

15) Shanice spent \$22 on a magazine and five notepads. If the magazine cost \$2, then how much was each notepad?

16) 215 students went on a field trip. Eight buses were filled and 7 students traveled in cars. How many students were in each bus?

**Solve each equation.**

$$17) -2k - \frac{2}{3} = -\frac{7}{6}$$

$$18) -2x + 1 = -1\frac{4}{5}$$

$$19) \frac{1}{3}v - \frac{1}{2} = 1\frac{1}{6}$$

$$20) -\frac{3}{2}n - 3 = 6$$

$$21) -2.9 + 1.9n = 7.17$$

$$22) -0.05 = \frac{x - 2.4}{2}$$

$$23) \frac{m - 1.8}{2} = 2.1$$

$$24) 7.58 = 1.1 + 1.2n$$