

– Test Review  
Intro to Algebra & Equations

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

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

**WORK PROBLEMS #1 through #19 ON SEPARATE PAPER!****Solve the equations. Check #1-3 and #13-15.**

1.  $n + 7 = 3$

2.  $n - 7 = 9$

3.  $5 = n + 2$

4.  $n + (-2) = 5$

5.  $4n = -16$

6.  $\frac{n}{7} = 4$

7.  $10n = 20$

8.  $n - (-2) = 4$

9.  $8 = n + 1$

10.  $3 + \frac{n}{2} = 9$

11.  $5n - 15 = -35$

12.  $\frac{n}{-2} + 2 = 4$

13.  $\frac{r}{10} + 4 = 5$

14.  $-5x + 13 = -17$

15.  $303 = -14r - 19$

**Define.**

16. Equation

17. Algebraic

**Evaluate if  $a = 3$ ,  $b = (-5)$ , and  $c = 10$ .**

18.  $2b + \frac{3c^2}{a}$

19.  $\frac{15a}{(c+b)}$

**Translate into an algebraic expression/equation.**

20. Fifteen times the number of chips is 135.

\_\_\_\_\_

21. Eight more than twice a number is twenty-two.

\_\_\_\_\_

22. the product of a number and -3

\_\_\_\_\_

23. Ninety-nine is the difference of seventeen and the quotient of a number and eleven.

\_\_\_\_\_

24. the sum of eighty and the product of a number and two

\_\_\_\_\_

**Draw a line to match the appropriate terms.**

25.  $3r + st = 14$

26.  $9 > x + 2$

27.  $2 = |-2|$

28.  $175 + (-1,990)$

29. The quotient of a number and two is five.

30. the quotient of a twice a number and two

verbal expression

algebraic equation

verbal equation

numerical equation

algebraic inequality

numerical expression

**Define the variable, set up an equation, and solve the word problems. Don't forget to write the answer with units!**

31. How many packages of silly bands can you buy with \$40 if one package costs \$8?

32. At a restaurant, Mike and his three friends decided to divide the bill evenly. If each person paid \$13, what was the total bill?

33. Three-hundred and thirty-one students went on a field trip. Six buses were filled and 7 students traveled in cars. How many students were in each bus?

**Remember, anything covered in math thus far is fair game! Review old tests to be prepared!**