

Name: _____

Unit 6 Review Sheet; Due Tuesday

Test on Wednesday, January 23

Topics will include:

- The difference between an expression and an equation
 - Written and numerical expressions
 - Word problems matching an equation
 - Finding the value of a variable
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1) Write your own definition of an expression and provide an example: _____

2) Write your own definition of an equation and provide an example: _____

3) Circle the variable in the equations or expressions:

- $4 + 6 - Z$
- $19B - 3 = 35$
- $J - 9$

Write a numerical expression that goes with the written expression:

4) 36 plus a number results in 48. _____

5) Ten less than a number. _____

6) Five times a number divided by 3. _____

7) A number multiplied by 9, plus 6, equals 24. _____

Write an equation or expression to match the word problem.

8) Daniel offered to make 48 cupcakes for a work party. He plans to bake 12 cupcakes in each pan. Write an expression (with the variable) to match the word problem. _____

9) Nikki had 18 fiction books, then she went to a yard sale and bought some more. Now she has 36 fiction books. Write an equation (with a variable) to match the word problem. _____

10) Freddy had \$15 to go to CVS. He bought some candy and a magazine and has \$7 left. Write an equation (with a variable) to match the word problem.

Question 11-13: Look at each situation in the table. Then given the options, write the correct algebraic equation next to the situation it describes.

Options: $3T = 45$ $90 - T = 33$ $10A = 30$

Problem Situation	Algebraic Equation
11) Lori had \$90 to go back to school shopping. At the end of her shopping trip she had \$33 left. How much money did she spend?	
12) Sandra has 10 boxes of cookies. Each box has an amount, A, of cookies in them. Sandra has a total of 30 cookies.	
13) Three columns of Oreos equal one full box of Oreos, 45 Oreos. The variable represents how many Oreos are in each column.	

14) Find the value of Q: $2Q - 3 = 15$

15) Find the value of T: $(32 + 6) - T = 30$