Name	Per

Mrs. Doolan/Math6

Writing Expressions

Objective: You will learn to translate phrases and situations into mathematical expressions.



Terms:

Sum: the result of adding numbers

<u>Difference:</u> the result of subtracting numbers

Product: the result of multiplying numbers

Quotient: the result of dividing numbers

Addition	Subtraction	Multiplication	Division
plus	minus	times	divided by
more than	less	product of	divided into
increased by	less than	doubled (two times)	quotient of
added	decreased by	of	goes into
sum	difference		each
Others:	Others:	Others:	Others:



To write an expression, determine:

Step 1: which operation is being used, and then

Step 2: substitute an operation sign for the corresponding words.

Step #3: assign the unknown value a variable

Step #4: translate the number words into numbers, and



Example #1: Sally has three more apples than Georgia.

↓ ↓ ↓ 3 + ε

The expression is: 3 + a

If Georgia's apples are: a

Then, Sally's apples must

be: 3 + a



Example #2: What is the product of 20 and k?

• 20 k

Product means multiplication. Therefore, the expression is:



Write as an expression.

1. Seven more than k

6. One-third of a

2. Three times the value of w

7. 17 times *s*

3. *m* divided by 3

8. *p* cubed

4. 5 less than **b**

9. *y* to the fourth power

5. $10 \operatorname{less than} k$

10. z doubled

Now, let's write expressions and evaluate for the values given:

11. What is the sum of 4 and d?

d = 9

12. Nick and Sarah each sold t candy bars and Jake sold 5 more. How many bars were sold all together? t = 6

13. All 20 kids in the class each spent n at Blue Moon, except for Mrs. Doolan, who spend \$6.75. How much money was spent at Blue Moon? n = \$5.00