$\qquad$ Per $\qquad$
Mrs. Doolan/Math6

## Writing Expressions

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

## Terms:

Sum: the result of adding numbers
Difference: the result of subtracting numbers
Product: the result of multiplying numbers
Quotient: the result of dividing numbers

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

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


Product means multiplication. Therefore, the expression is:

YOU GOT THIS

## Write as an expression.

1. Seven more than $\boldsymbol{k}$
2. One-third of a
3. Three times the value of $\boldsymbol{w}$
4. $\boldsymbol{m}$ divided by 3
5. p cubed
6. 5 less than $\boldsymbol{b}$
7. $y$ to the fourth power
8. 10 less than $\boldsymbol{k}$
9. $z$ doubled

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

11. What is the sum of 4 and $\boldsymbol{d}$ ?

$$
d=9
$$

12. Nick and Sarah each sold $\boldsymbol{t}$ 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 $\boldsymbol{n}$ at Blue Moon, except for Mrs. Doolan, who spend $\$ 6.75$. How much money was spent at Blue Moon? $\mathrm{n}=\$ 5.00$
