Mr. Tallman

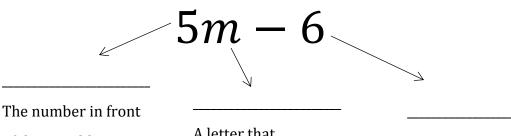
Do Now

Write as many words that mean each operation below as you can think of.

Addition	<u>Subtraction</u>	Multiplication	<u>Division</u>

Lesson #48 - Translating Expressions

An Expression is a mathematical sentence that DOES NOT CONTAIN an equal sign. There are different parts to every expression.



of the variable.

A letter that represents a numerical value.

A number Alone with No Variable.

Identify the parts of the following expressions.

1) 3 <i>x</i> – 5 Coefficient:	2) 9 + 2 <i>x</i> Coefficient:	3) -8 - 15 <i>x</i> Coefficient:
Variable:	Variable:	Variable:
Constant:	Constant:	Constant:

Just like you can translate something from English to Spanish, you can translate words into a numerical expression.

Operation	Verbal Expression	Algebraic Expression
+	 A number increased by 3 The sum of a number and 3 3 more than a number A number plus 3 	
	 The difference of a number and 5 A number minus 5 A number diminished by 5 A number decreased by 5 5 subtracted from a number 5 less than a number 	
X	 The product of 2 and a number A number times 2 A number multiplied by 2 	
•	A number divided by 6The quotient of a number and 6	
=	• A number increased by 12 is 20	

Examples: Translate the following sentences into expressions or equations. Underline key words and use "n" as "the number".

4) five times a number is 30.

5) 2 subtracted from x

6) $\frac{1}{4}$ of a number is 8.

7) the difference between twice a number and three is nine.

8) The sum of a number and 4 multiplied by $\frac{1}{2}$.

9) Henry fixes TV's. He charges \$25 for a diagnostic fee plus \$24 per hour.

Now, You Try! Translate the following sentences into an expression or equation. Use "n" as your variable.

10) Eleven less than a nu	mber	
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11) the product of a number and six is negative 18.

12) twice a number plus 12. ______

13) five times the sum of a number and four is 17.

- 14) Samantha bought jewelry at a crafts fair. She bought a necklace for \$8 and some bracelets for \$5 each. She spent \$23 in all. Write an equation that can used to find the number of bracelets Samantha bought.
- 15) Five times a number increased by seven
- 16) Three times a number x subtracted from 24

Identify the coefficient, variable and constant in each expression below.

17) $-7x + 9$	18) 12 <i>t</i> – 13	19) $-18 - 6x$
Coefficient:	Coefficient:	Coefficient:
Variable:	Variable:	Variable:
Constant:	Constant:	Constant: