Vocabulary

Name: _____

	Example	What does it mean?
Variable	a, b, c, x, y	letter that represents
Coefficient	2x	#infront of variable
Constant	10, 2, -4	Plain, naved # no tetter
Expression	5+6a	no equal sign
Terms	6+7X-45z	separated by t op - sign
Like Terms	7a 4z 6a -2z	same variable
Monomial	7a -5	1 term
Binomial	7x-4a	2 terms
<u>Tri</u> nomial	a + lot c 1-4a+q	3 terms
Polynomial	atbtctd a-btct2	4 OR MORE tERMS
Equation	1+1=2	hus equal sign

y=mx+b

WORD WALL:

Addition (+):

- More
- Sum → (and)
- Increase
- Plus
- Total → (and)
- Added to
- CombinedInclude
- Diminished
 Exclude
 - Remove
 - Take away

Subtraction (-):

Decrease

Minus

Difference → (and)

Less

Reduced

Multiplication (x):

- Times
- Product → (and)
- Twice (*2)
- Daublad (
- Doubled (*2)
- Triple (*3)
- Of
- Multiple

Division (+):

- Divided By
- Quotient → (and)
- Separated
- Split
- Cut

Tricky:





To

Convert the following phrases and sentences to algebraic expressions:

1. "The sum of three and an unknown number."

3+X

3. "A number doubled reduced by five."



5. "The product of three and an unknown number diminished by eight."



7. "The quotient of a number tripled and six."



9. "Ten subtracte from wice a number."



11. 4 of a number increased by seven.



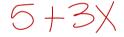
13. Five add to a number squared.

 $5+\chi^2$

2. "Three less than an unknown number."



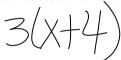
4. "The number of five increased by three times a number."



6. "Four subtracted from a number."



8. "Three times the sum of a number and four."



10. "Twice the difference of and a number."



12. Twice the total of a number and three.



14. Nine decreased by a number cubed.





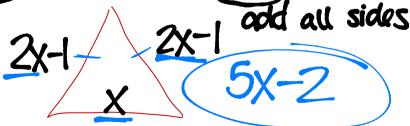
- 16. Jennifer is 1 year older than twice Zack's age. Write an expression that represents Jenifer's age in relation to Zack.
- 17. Jerry worked 2 hours less than four times as many hours as Katrina worked. Write an expression that represents the number of hours Jerry worked in relation to Katrina.



18. In a given rectangle the shorter side is 2 units less than the longer side. If we let the longer side be represented as the variable x, create an expression that represents the perimeter of the rectangle.



19. In an isosceles triangle (a triangle where two of the three sides called legs are equal), the legs are 1 unit less than twice the length of the base. If the length of the base of the triangle is represented by x create an expression that represents the perimeter of the triangle.



20. Andrea is three times older than Eliza. Suzie is 4 years older than Eliza. If Eliza's age can be represented by x, create an expression that represents the combined age of all three girls.