

Name 4/5

Topic/Objective: Variables and expressions

Date: September 15, 2015

3	x	+	4
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ALGEBRAIC EXPRESSION

Writing Algebraic Expressions

Coefficient -

A number multiplied by a variable

Variable-

A letter

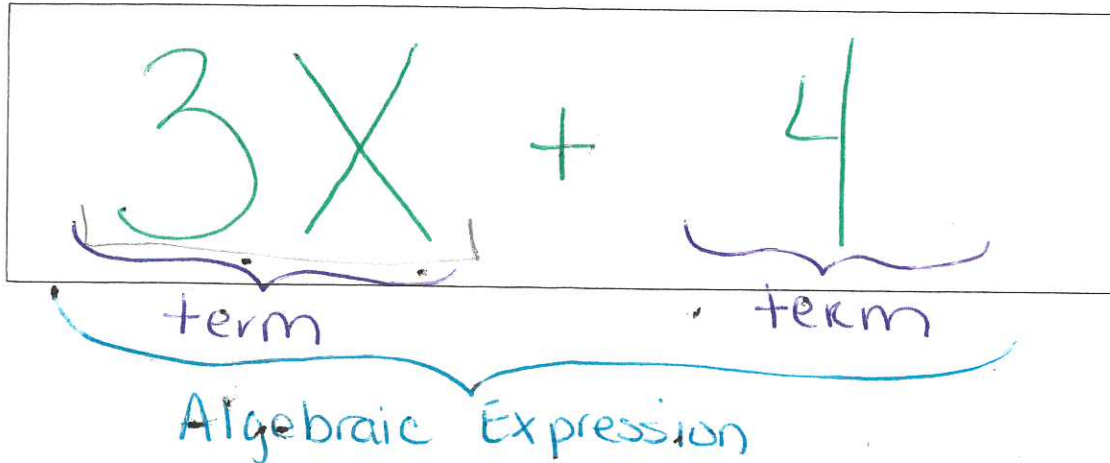
Operation-

Addition
Subtraction
Multiplication
division

Constant-

A number that stands alone

To
Da



Term- A combination of variables and/or constants separated by an operation.

Algebraic Expression- A mathematical phrase that includes numbers, letters and operations

Algebraic Expressions

1. A number increased by seventeen $x + 17$	10. The quotient of a number and t $\frac{x}{t}$
2. Seven times a number $7x$	11. A number squared less six $x^2 - 6$
3. The total of x and seven $x + 7$	12. One - half the square of a number $\frac{1}{2}x^2$
4. A number decreased by twelve $x - 12$	13. Double the number $2x$
5. A number increased by thirty-one $31 + x$ or $x + 31$	14. The sum of a and b $a + b$
6. A cube of a number <u>fewer than 25</u> $x^3 - 25$ $25 - x^3$	15. Two-thirds of a number $\frac{2}{3}x$
7. Twenty-two increased by the square of a number $22 + x^2$	16. Two divided by a number $\frac{2}{x}$
8. A number to the eighth power x^8	17. Seventeen <u>less than</u> twice the number $17 - 2n$ $2n - 17$
9. Twice a number decreased by one $2x - 1$	18. The difference of six and a number $6 - x$

Notes:

Examples

1) 7 more than b.

$$b+7 \text{ or } 7+b$$

2) 70 divided by a number x.

$$\frac{70}{x}$$

3) $\frac{1}{3}$ of a number y

$$\frac{1}{3}y$$

4) The difference of 18 and a number x

$$18-x$$

5) A number less 10

$$x-10$$

6) 10 less than a number a.

$$a-10$$

~~$$10-a$$~~