

Unit 5 Intro To Polynomials***5.2A Substitution & Translating English to Algebra***

Substitution –

Ex. Evaluate each expression for the given variable values:

a) $3x + y$ if $x = -2$ and $y = 4$

b) $-2ab - (a + b)$ if $a = 3$ and $b = -1$

c) $\frac{p-q}{2pq}$ if $p = 3$ and $q = -5$

Translating English to Algebra – see keyword list on back

Ex. Write an algebraic expression for each statement (let x be the number):

a) Five more than double a number.

b) Three less than five times a number.

c) Three decreased by five times a number.

Ex. Tickets for a play cost \$8 for adults and \$3 for children. Write an expression representing the total money collected from ticket sales.

Translating English to Math - Key Words

Addition	increased by more than combined, together total of sum added to and
Subtraction **order matters**	decreased by minus, less difference between/of less than fewer than reduced by
Multiplication	of (ex. $\frac{2}{3}$ of a number) times multiplied by product of twice, doubled (x2), tripled (x3), etc.
Division	per a out of ratio of quotient of percent (divide by 100)
Equals	is are was were will be gives yields sold for