Vocabulary Reference

Algebra I *Name* _____

- ***Percents***

$8\% = .08 = \frac{8}{100}$ $6.5\% = \frac{6.5}{100} = \frac{65}{1000} = .065$

$125\% = \frac{125}{100} = 1\ 25/100 = 1.25$

- ***Circles***

Area *of a circle* πr^2

Circumference *of a circle* $2\pi r$ *or* πd *r = radius*
d = diameter

π *is the ratio of the circumference of a circle to its diameter. The circumference of any circle is approximately 3 times the diameter*

- ***Measurement***

length	*is measured in units*	*inches, feet*
area	*is measured in square units*	in^2
volume	*is measured in cubic units*	in^3

- ***Exponents*** ***(powers)***

$x^3 = x \bullet x \bullet x$ $2^3 = 2 \bullet 2 \bullet 2$

$x^n \bullet x^m = x^{n+m}$ $3^2 \bullet 3^4 = 3^6$

$\frac{x^n}{x^m} = x^{n-m}$

Is there a difference between $3x^2$ *and* $(3x)^2$ *?* *try for* $x = 2$

Vocabulary Reference

Algebra I *Name* _____

- ***Vocabulary*** $3x^2 + 2x + 4$

standard form	*descending values of exponent*
	$3x^2 + 2x + 4$ *not* $2x + 3x^2 + 4$
expression	$3x^2 + 2x + 4$
equation	$3x^2 + 2x + 4 = 5$
terms	$3x^2$ *and* $2x$ *are terms*
coefficient	$3x^2$ (3 *is the coefficient)* $2x$ (2 *is the coefficient)*
variable	*'x' is the variable (unknown)*
constant	*'4' is the constant term*

- ***Coordinate Plane***

axis	*means line (plural form 'axes')*
x axis	*horizontal number line*
y axis	*vertical number line*
quadrants	
ordered pair	*(x coordinate, y coordinate)*