

Name: _____

Date: _____

Wksht 5.1 The Language of Mathematics

1. For each expression

i) identify the number of terms

ii) identify the expression as a monomial, binomial, or trinomial

a) $-2x^2$ i) _____ ii) _____

b) $a + b^2 + s$ i) _____ ii) _____

c) $y - 5$ i) _____ ii) _____

d) $3d^2 - 5xy$ i) _____ ii) _____

e) r i) _____ ii) _____

f) $b^2 - 2b + 7$ i) _____ ii) _____

2. Identify each polynomial below as a monomial, binomial, or trinomial. If it is none of these, identify it as a polynomial.

$c + d$	$3y$	$-7e^2 - 4f$	$a^2 - 3n - 6a - 5n^2$
x^2	$m^2 - n - 8$	$a + 2b - 2c - 3d$	$4z^2 - y^2 - 6$

Monomials

Binomials

Trinomials

Polynomials

3. For each expression

i) identify the number of terms

ii) state whether the expression is a monomial, binomial, or trinomial

a) $6t$ i) _____ ii) _____

b) $x^2 + 3y - 2$ i) _____ ii) _____

c) $9 - r$ i) _____ ii) _____

d) $a - 2b + 4ab$ i) _____ ii) _____

e) $-cd$ i) _____ ii) _____

f) $5s^2 - st$ i) _____ ii) _____

4. State the degree for each of the polynomials in #3.

a) _____

b) _____

c) _____

d) _____

e) _____

f) _____

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5. For each polynomial

i) state the degree

ii) state the number of terms

a) $f + g + h$

i) _____

ii) _____

b) $m^2 - mn + n^2$

i) _____

ii) _____

c) $x - y$

i) _____

ii) _____

d) s^2

i) _____

ii) _____

e) 31

i) _____


ii) _____

f) $5d^2 + dh - 11h^2 + 3$


i) _____


ii) _____


6. Write the expression represented by each set of algebra tiles.


 = positive 1-tile

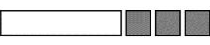
 = negative 1-tile

 = positive x-tile

 = negative x-tile

 = positive x^2

 = negative x^2

a) 

b) 

c) 

d) 

7. For the polynomial $3a^2 - 4ac - 8$ state the following.

a) Number of terms _____

b) Coefficient of the first term _____

c) Coefficient of the second term _____

d) Number of variables _____

e) Degree of polynomial _____

f) Constant term _____