Lesson: Identifying Parts of Algebraic Expressions WS

1) How many terms are in each of the following algebraic expressions?	Answers:
a) $6x^3 + 8x^2 - 4x$	
b) $15xy^3 + 21x^2 - 16$	
c) $19x^4 + 8x^2 + 4xy - 2$	
d) $8x^3 + 14x^5 - 20x^2 + 9x - 25$	
e) $9x^3y + 5x^4 - 24x^2 + 7x - 6x^6$	
f) $2ab + 7$	
g) $15xy + 7x + 2y + 9$	

2) Identify the coefficients, constants, and variables in each expression.	Coefficients	Constants	Variables
a) $81x^3 + 7xy^2 - 14x$			
b) $4x^3 + 8x^2 - 24$			
c) $61x^2 + 6x + 7$			
d) $4xyz^3 + 8x^2 - 2xy^2 + 29x - 46$			
e) $22a^3 + 38a^2 - 12b$			
f) $28a^2 - 17ab$			
g) $7x + 2xy$			

3) Identify the exponents in each expression.	Answers:
a) $12x^3y^2$	
b) $62x^4$	
c) $2x^2y$	
d) $125x^5$	
e) $9a^7$	
f) -12	
g) $-12ab^2c$	

4) List the like terms in each of the following algebraic expressions?	Answers:
a) $14xy^2 + 25x - 6x + 2$	
b) $8x^2 + 12x^2 - 9xy + 3x$	
c) $86x^3 + 42x - 36x^3 + 21y$	
d) $4x^2 + 6y - 6x + 7y$	
e) $36m^3 + 22m^2n^2 - 2m^2n^2 + 7m - 50$	