Name:

Date: _____

BLM 5-7

Section 5.2 Extra Practice

1. Determine

i) the value of the coefficient

i)

ii) the number of variables for each term

a) -t i) _____

ii) _____

b) 4*d*²

i) _____

ii) _____

c) 12 i) _____

ii) _____ ii) **d)** -8*de* **f)** -*c*² i) _____

ii) _____ ii)

2. Match the expression with its description by placing the correct letter in the blank.

A -4x

_____ a constant

B 17

_____ a binomial with two variables

C 2ab

_____ -1 is the coefficient

D $3y^2 - 2y$

_____ -4 is the coefficient

E -*m*

_____ a binomial with a degree of 2

F 5x - 3y

_____ a monomial with a degree of 2

3. Circle the like terms in each group.

a) 4x, 4y, x^2 , -x, y^2

c) a, 4b, -3ab, 7a, 1.5a

e) 6st, -10s, $\frac{3}{4}st$, -st, t

g) 0.5*jk*, –*jk*, *j*², 6*jk*, –*k*

b) 6, 2x, -2.5, 3y, -0.1

d) -f, 3ef, f^2 , $-6f^2$, 5e

f) pq, $-0.6p^2$, 5q, $-p^2$, $10p^2$

h) $\frac{2}{5}$, $\frac{1}{2}r$, 0.12, r^2 , 9

4. Collect like terms.

a) $3m - m^2 - 6 + 3m^2$

c) $-c - c^2 + 3c + c^2$

e) $-2b^2 - 7b + 3b^2 - 8b + b$

g) –2a – 1 – a – 7 – 5a

b) $-4k - k^2 + 5k - 7k^2 + 8$

d) 7 - 10 + 5n - n + 9 + 8n

f) $w^2 - 3w - 8w^2 + 7w^2 + 10w$

h) $3s + 6 - 6s^2 - 8 + 7s - 2s^2$

Na	me:	Date:	
5.	A rectangle's length is 7 cm greater than its	s width, <i>w</i> .	BLM 5-7 (continued)
	a) Draw the rectangle and label its dimension	ons.	
	b) Write the expression to find its perimete	r.	
	c) Collect like terms.		
6.	The cost of publishing the school yearbook committee priced the yearbook at \$8.	was \$440. The yearbook	

a) Write an expression that represents the profit, p, for the number of

b) How many yearbooks need to be sold for the yearbook committee to break

yearbooks sold, n.

even?