Name: _____ Date: _____

BLM 5–7

Target C-2 Extra Practice

1. Determine

i) the value of the coefficient
ii) the number of variables for each term

a) $-t$ i) _____ ii) _____ **b)** $4d^2$ i) _____ ii) _____
c) 12 i) _____ ii) _____ **d)** $-8de$ i) _____ ii) _____
e) b i) _____ ii) _____ **f)** $-c^2$ i) _____ 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
b) 6, $2x$, -2.5, $3y$, -0.1
c) a, $4b$, $-3ab$, $7a$, $1.5a$
d) $-f$, $3ef$, f^2, $-6f^2$, $5e$
e) $6st$, $-10s$, $\frac{3}{4}st$, $-st$, t
f) pq, $-0.6p^2$, $5q$, $-p^2$, $10p^2$
g) $0.5jk$, $-jk$, j^2, $6jk$, $-k$
h) $\frac{2}{5}$, $\frac{1}{2}r$, 0.12, r^2, 9

4. Collect like terms.

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

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

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

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

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

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

g) $-2a - 1 - a - 7 - 5a$
_____

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

Name: _____ Date: _____

5. A rectangle's length is 7 cm greater than its width, *w*.

a) Draw the rectangle and label its dimensions.

b) Write the expression to find its perimeter.

c) Collect like terms.

6. The cost of publishing the school yearbook was $440. The yearbook committee priced the yearbook at $8.

a) Write an expression that represents the profit, *p*, for the number of yearbooks sold, *n*.

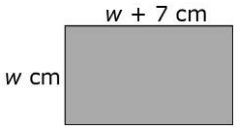
b) How many yearbooks need to be sold for the yearbook committee to break even?

Name: _____ Date: _____

BLM 1–1
(continued)

Extra Practice Answers

1. a) i) –1 ii) 1 **b)** i) 4 ii) 1 **c)** i) no coefficient ii) 0 **d)** i) –8 ii) 2 **e)** i) 1 ii) 1
f) i) –1 ii) 1
2. B, F, E, A, D, C
3. a) $4x$, $-x$ **b)** 6, –2.5, –0.1
c) a, $7a$, $1.5a$ **d)** f^2, $-6f^2$
e) $6st$, $\frac{3}{4}st$, $-st$ **f)** $-0.6p^2$, $-p^2$, $10p^2$
g) $0.5jk$, $-jk$, $6jk$ **h)** $\frac{2}{5}$, 0.12, 9
4. a) $2m^2 + 3m - 6$ **b)** $-8k^2 + k + 8$
c) $2c$ **d)** $12n + 6$ **e)** $b^2 - 14b$ **f)** $7w$
g) $-8a - 8$ **h)** $-8s^2 + 10s - 2$
5. a)



b) $P = w + (w + 7) + w + (w + 7)$
c) $4w + 14$
6. a) $p = 8n - 440$ **b)** $8n = 440$, $n = 55$. It breaks even after selling 55 yearbooks.