

Section 5.2 Extra Practice

1. Complete the table.

	Coefficient	Variable(s)
a) $-t$		
b) $4d^2$		
c) 12		
d) $-8de$		
e) b		
f) $-c^2$		

2. Match the expression with its description by writing 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.

Like terms have the same variables(s) and corresponding exponents.

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



Box or circle like terms. Remember that the sign before the term goes with the

4. Collect like terms.

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

$$= \boxed{3m^2} - \boxed{m^2} + 3m - 6$$

$$= \underline{\hspace{2cm}} m^2 + 3m - 6$$

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

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. Write the simplified expression for the perimeter.