Name: _____ Date: _____

Chapter 5 Review

Key Words
For #1 to #6, write the letter that best matches each description.
You may use each letter more than once or not at all.

1. $3w$ is a like term _____

2. has 3 terms _____

3. monomial _____

4. opposite polynomial to $3x - 1$ _____

5. polynomial with a degree of 2 _____

6. has the constant term 3 _____

A $-3x + 1$

B $-4d + 3$

C $1 - 3x^2$

D $-w$

E $x - 6y + 2$

F $-3x - 1$

G $3f - 1$

5.1 The Language of Mathematics, pages 242–250

monomial, binomial, trinomial, or polynomial

7. Complete the table.

Expression	Degree	Number of Terms	Type of Polynomial
a) $5 - p + px - p^2$			
b) $3f - 6$			
c) $-2a$			
d) $3y^2 + 5xy - 27x^2 + 2$			

8. **a)** What is the degree of the polynomial $ab - 7a + 3$? _____

b) Explain how to find the degree of a term.

_____

c) Explain how to find the degree of a polynomial.

_____

_____

9. Draw algebra tiles to model the expression $3x^2 - 2x + 1$.

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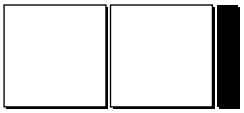
10. What expression does each model show?



_____ _____

11. Used videos cost \$10. Used books cost \$4.
The expression $10v + 4b$ describes the value of sales.

a) What does the variable v stand for? _____

b) What does the variable b stand for? _____

c) How much money would you receive if you sold 6 video games and 11 books?

Sentence: _____

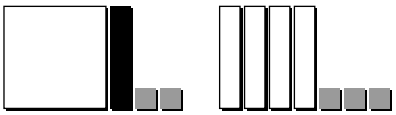
5.2 Equivalent Expressions, pages 252–261

12. Complete the table.

Expression	Coefficient	Variable(s)	Exponent(s) of the Variable(s)
a) $8xy^2$			
b) $-c^2$			

13. Circle the like terms: $-2x^2$ $3xy$ x^2 $5.3y$ 2

14. **a)** The diagram shows an expression. Redraw the tiles so like terms are together.



b) Write an expression for the simplified answer. _____

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15. Combine like terms to simplify the expressions.

Draw tiles or use symbols.

a) $3 - 2x + 1 + 5x$

b) $1 - c + 4 + 2c - 3 + 6c$

16. The perimeter of a shape is $(4x) + (3x - 1) + (x + 3) + (x - 2)$.
Each part in brackets is the length of one side.

a) Draw and label a shape for this expression.

b) Simplify the expression for the perimeter.

5.3 Adding and Subtracting Polynomials, pages 263–273

17. What is the opposite of each polynomial?

a) $7 - a \rightarrow$ _____

b) $x^2 - 2x + 4 \rightarrow$ _____

18. $(3x^2 + 4x - 9) + (2 - 5x - x^2)$

a) Find the sum using algebra tiles.

b) Find the sum using symbols.

19. Combine like terms.

Add the opposite.

a) $(-p + 7) + (4p - 5)$

b) $(a^2 - a - 2) - (5 - 3a^2 + 6a)$