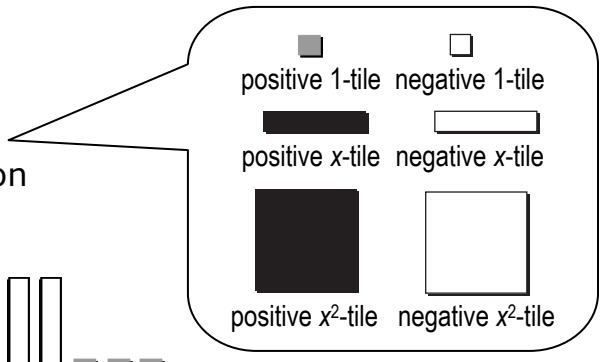
Name: _____ Date: _____

BLM 5–6

# Chapter 5 Test




*For #1 to #4, choose the best answer.*

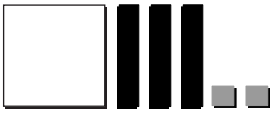
**1.** Which diagram represents the expression $x^2 - 3x + 2$?

**A**

**B**

**C**

**D**



**2.** Which expression is an example of a polynomial with a degree of 2?

**A** $2x$
**B** $4 - 3x$
**C** $3xy + 5x$
**D** $x^2y + 3x + 7$

**3.** Which expression can be classified as a trinomial?

**A** $x^2y + xy^2 + x + y$
**B** $x + y + z$
**C** $5x^3 + 7$
**D** $3x$

**4.** Devin was asked to subtract the expressions $5x - 7$ and $-2x + 6$. His work is shown below.

| | |
|---|---|
| $(5x - 7) - (-2x + 6)$ | Step 1 |
| $= 5x - 7 + 2x + 6$ | Step 2 |
| $= 5x + 2x - 7 + 6$ | Step 3 |
| $= 7x - 1$ | Step 4 |

In which Step did Devin make his first mistake?

**A** Step 1
**B** Step 2
**C** Step 3
**D** Step 4

*Complete the statements in #5 to #7.*

**5.** The degree of the constant term 6 is _____.

**6.** The coefficient of the term $x$ is _____.

**7.** In the monomial $-5x^2$, the variable is _____.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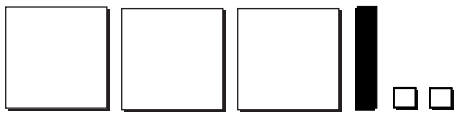
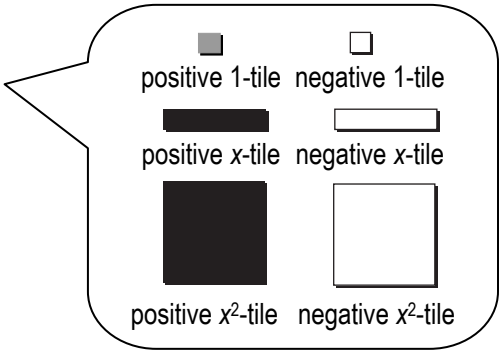
(continued)

## Short Answer

**8.** Write an expression that can be shown by the diagram.






_____

**9.** Match each expression on the left with its equivalent expression or model.

**a)** $4x + 11 - 5 - 6x$

**b)** $x - 2x^2 + 4$

**c)** $3x^2 - 1 + 5x + 3 - x^2 - 4x$

**d)** $-(-5 + 2x)$

**A** 

**B** 

**C** $-2x + 5$

**D** $-2x^2 + x + 4$

**10.** Draw a model to show $(2x^2 - 3x + 1) + (-x^2 + 5x + 2)$. Then, express the sum symbolically.

_____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**11.** Jared wants to have his birthday party at the movies. The price of a movie ticket is $12.50. The cost to rent the party room after the movie is $50 plus $5 per person.

**a)** Write an expression to represent the cost of movie tickets. Let $n$ = number of tickets or people.

_____

**b)** Write an expression to represent the cost of renting the party room after the movie. Let $n$= number of people.

_____

**c)** What is the simplified expression for the total cost of Jared's birthday party?

**d)** How much would it cost for Jared's birthday at the movies, including the party room, for Jared and 5 friends?


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