

Multiple Choice: Identify the choice that best completes the statement or answers the question.

- _____ 1. A large white square represents an x^2 -tile, a black rectangle represents a $-x$ -tile, and a small white square represents a 1-tile.




Write the polynomial represented by this set of algebra tiles.



- a. $3x^2 - x^3 + 5$ b. $-3x^2 + 3x + 5$ c. $3x^2 - 3x + 5$ d. $3x - 3x^2 + 5$

- _____ 2. A large white square represents an x^2 -tile, a large black square represents a $-x^2$ -tile, a small white square represents a 1-tile, and a small black square represents a -1 -tile.

How would you model the polynomial $-3x^2 - 4$ with algebra tiles?

- a.  c. 
- b.  d. $3 \text{ [large black square]} + 4 \text{ [small black square]}$

- _____ 3. Which of the following expressions is a binomial with degree 2?

- i) $x^2 - 6x + 5$
 ii) $3x^2$
 iii) $5x^2 - 2x$

- a. i b. ii c. i & iii d. iii

- _____ 4. Name the coefficients of the variable in the polynomial: $-4x^2 + 10x - 12$.

- a. -4 b. -4, 10 c. -4, -12 d. 4, 10

- _____ 5. Simplify: $8x + 2 - 6 + 4x$

- a. $10x - 2$ b. $12x - 4$ c. $8x$ d. $12x + 4$

- _____ 6. From the list, which terms are like $-7x^2$?

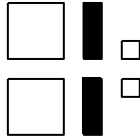
$7x^2, 7x, 6x^2, -7, -5, -7x, -3x^2$

- a. $7x^2, 7x, -7, -7x$ c. $7x^2, 7x, -7x$
 b. $7x^2$ d. $7x^2, 6x^2, -3x^2$

Short Answer: Show all work on a separate piece of paper!

7. A large white square represents an x^2 -tile, a black rectangle represents a $-x$ -tile, and a small white square represents a 1-tile.

What polynomial does this collection of algebra tiles represent?

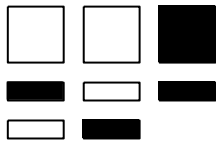


8. Is each expression a monomial, binomial, or trinomial?
 a) $5x^2 - 2x$ b) $4x^2$ c) $4 - 6x + 5x^2$ d) $2x^2 - 7$ e) $4x^3 - 8x$
9. Name the coefficients, variable, degree, and constant term in the polynomial: $4x^2 - 6x + 8$.
10. Identify the degree of each polynomial.
 a) $7t + 4$ b) $4p^2 - 7p + 7$ c) $11q^2$ d) $13v$
11. A large white square represents an x^2 -tile, a large black square represents a $-x^2$ -tile, a white rectangle represents an x -tile, a black rectangle represents a $-x$ -tile, a small white square represents a 1-tile, and a small black square represents a -1 -tile.

Sketch algebra tiles to model the polynomial: $6 - 4v^2 + v$.

12. A large white square represents an x^2 -tile, a large black square represents a $-x^2$ -tile, a white rectangle represents an x -tile, and a black rectangle represents a $-x$ -tile.

Write the simplified polynomial.



13. Combine like terms. Sketch algebra tiles if it helps.
 $3x^2 - 6x + 4x^2 + 3x - 6$
14. Group like terms.
 $5x^2 + 5 - 2x + 3 + 3x^2 - 3x$
15. Write a polynomial with the given variable, degree, coefficient, and number of terms.
 a) Variable: p ; degree: 2; coefficients: 2, -4 ; number of terms: 2
 b) Variable: t ; degree 2, coefficients: -3 , 7; number of terms: 3; constant: 5

TASK3: Week 3 Quiz Review


Name: _____ Date: _____

TASK3: Quiz Review Week 3

MULTIPLE CHOICE

- 1. ANS: C
- 2. ANS: B
- 3. ANS: D
- 4. ANS: B
- 5. ANS: B
- 6. ANS: D

SHORT ANSWER

- 7. ANS:
 $2x^2 - 2x + 2$
- 8. ANS:
a) Binomial b) Monomial c) Trinomial d) Binomial e) Binomial
- 9. ANS:
Coefficients: 4, -6
Variable: x
Degree: 2
Constant term: 8
- 10. ANS:
a) 1 b) 2 c) 2 d) 1
- 11. ANS:

- 12. ANS:
 $x^2 - x$
- 13. ANS:
 $7x^2 - 3x - 6$
- 14. ANS:
 $5x^2 + 3x^2 - 2x - 3x + 5 + 3$
- 15. ANS:
a) $2p^2 - 4p$
b) $-3t^2 + 7t + 5$