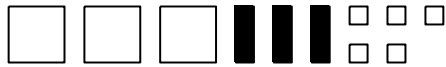**TASK 2: Review Week 11 Quiz** Name: _____ Date: _____

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.

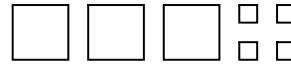Write the polynomial represented by this set of algebra tiles.

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 $+ 4$

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

i) $x^2 - 6x + 5$

ii) $3x^2$

iii) $5x^2 - 2x$

iv) $\dfrac{1}{x^2} - 7$

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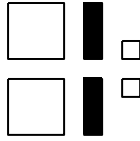b. $7x^2$ d. $7x^2, 6x^2, -3x^2$

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.

    a) Write the simplified polynomial.   b) Write the polynomial represented by this set of algebra tiles.
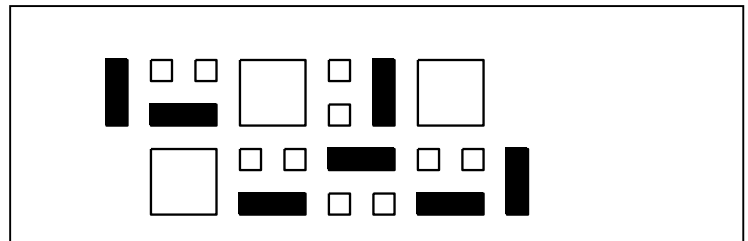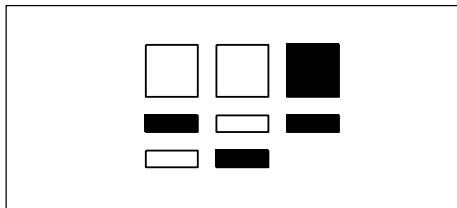
13. Combine like terms. Sketch algebra tiles if it helps.
    $3x^2 - 6x + 4x^2 + 3x - 6$

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: c; degree: 1; coefficient: 6; number of terms: 1
    c) Variable: t; degree 2, coefficients: −3, 7; number of terms: 3; constant: 5

TASK2: Review Week 11 Quiz
   Answer Section
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. a) ANS: b) ANS:
$x^2 - x$ $3x^2 - 7x + 10$

13. ANS:
$7x^2 - 3x - 6$

14. ANS:
$5x^2 + 3x^2 - 2x - 3x + 5 + 3$

15. ANS:
a) $2p^2 - 4p$
b) $6c$
c) $-3t^2 + 7t + 5$