UNIT 5 EXAM RE-WRITE Polynomials Use the following diagram to answer the next three questions.	
Use the following diggram to answer the next three questions	1 -
ose the johowing diagram to unswer the next three questions.	
1) Write an expression for the polynomial represented by the tiles above. (1)	
2) What is the degree of this polynomial? (1)	
3) How many different terms does this polynomial consist of? (1)	
4) Write a polynomial that represents the perimeter of the shape below. Simpl the polynomial. (2)	ify
2x - 8	

5x

Name:	
T AMILIA.	

/16

5) Which of the following expressions are equivalent to the polynomial $2x^2$ - 16? (circle one) (1)

$$-2x^2 + 16$$

$$-16 + 2x^2$$

 $-16 - 2x^2$

6) Which of the following pairs are NOT like terms? (circle one) (1)

x and -3

-3x and x

 $10x^2$ and $-2x^2$

7) Simplify each of the following expressions by combining like terms. (2)

a)
$$2x + 5 + 8x^2 + 10x$$

b)
$$7 + 3x - 4x^3 - x + 12$$

8) A student determines the product of the expression $2(-2x^3 + 2x)$ to be $-4x^3 + 4x$. Is the student correct? Explain. (2)

9) Simplify each of the following polynomials by adding or subtracting. (2)

a)
$$(2x^2 + 5) + (x^2 - 2)$$

b)
$$(3x^3 + 6x^2) - (x^3 + 4x^2)$$

11) Simplify each of the following polynomials by multiplying or dividing. (3)

a)
$$4(3x - 1)$$

b)
$$x (5x + 7)$$

c)
$$(-10x^2 + 12) \div 2$$