

Day 4 – Multiplying Polynomials

Name: _____

Practice Assignment

Date: _____ Block: _____

Use the Area Model to multiply the following. Write your answer in standard form.

1. $4(x + 3)$

2. $(9x - 3)(6)$

3. $-(3x - 6)$

4. $(x + 5)(x - 2)$

5. $(x - 4)(x + 3)$

6. $(x - 4)(x + 4)$

7. $(x - 3)(x + 3)$

8. $(x + 2)^2$

9. $(x - 6)^2$

10. $(2x - 6)(7x + 1)$

11. $(x + 5)(3x - 4)$

12. $(2x - 4)(3x + 3)$

Day 4 – Applications of Polynomials

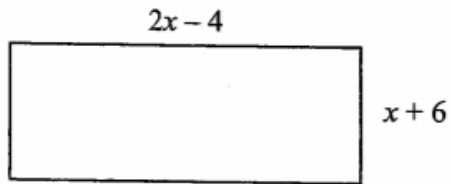
Name: _____

Practice Assignment

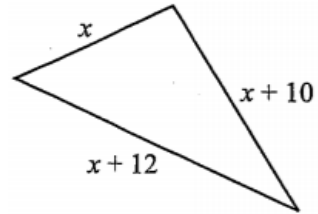
Date: _____ Block: _____

1. Find the perimeter of the following figures:

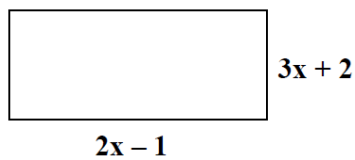
a.



b.

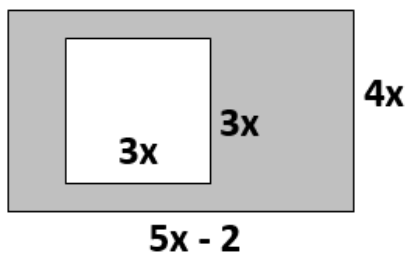


2. Write an expression for the perimeter and area of the following rectangle.

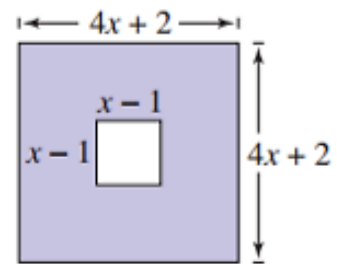


3. Find the area of the shaded region:

a.



b.



4. The polynomial $c(x) = x^2 + 4x - 10$ models the cost a company incurs from making an item at a price x . The polynomial $i(x) = 4x^2 - x + 20$ represents the income from selling the same item at a price x . Write a polynomial that expresses the profit from making and selling the item. (hint: profit = income - cost)