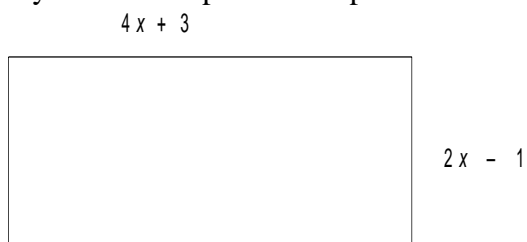


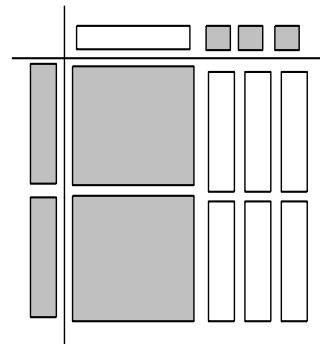
EXAM REVIEW GRADE 9
Unit 5 – Polynomials

Name: _____ Class: _____

1. Simplify: $2x^2 - 2x + 5x^2 - 4x - 3x^2 + 2x$
2. What is the opposite of $4x^2 - 3x + 2$?
3. Write a polynomial with a coefficient of 3, degree 2 and a constant term of 7.
4. If $x = 3$, what is the value of $x^2 - 2x + 3$?
5. Write a polynomial to represent the perimeter of this rectangle.



6. Which multiplication sentence is modeled by the algebra tiles shown?



7. Perform the operations indicated and simplify:

a. $(2x^2 - 5xy + 3y^2) + (7xy - 5y^2 + 4x^2)$

b. $(-4x^2 + 6x - 3) - (2x^2 - x + 5)$

c. $-3(2x^2 - 4xy + 5y^2)$

d. $\frac{30x^2 - 18xy}{-6x}$

EXAM REVIEW GRADE 9
Unit 5 – Polynomials

Name: _____ Class: _____

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

8. A student subtracted $(2x^2 + 5x - 3) - (x^2 - 2x + 4)$ like this:

$$(2x^2 + 5x - 3) - (x^2 - 2x + 4)$$

$$= 2x^2 + 5x - 3 - x^2 - 2x + 4$$

$$= 2x^2 - x^2 + 5x - 2x - 3 + 4$$

$$= x^2 + 3x + 1$$

Identify the errors and correct them.

9. Two sides of a triangle are $3x - 4$ and $2x + 5$. If the perimeter is $9x + 6$, what is the length of the third side of the triangle?

10. A rectangular rug with dimensions $2x$ by $(x + 1)$ is placed in a rectangular room with dimensions $(4x)$ by $(3x + 4)$. What area of the floor is *left uncovered*?

