

Name: \_\_\_\_\_ Period: \_\_\_\_\_

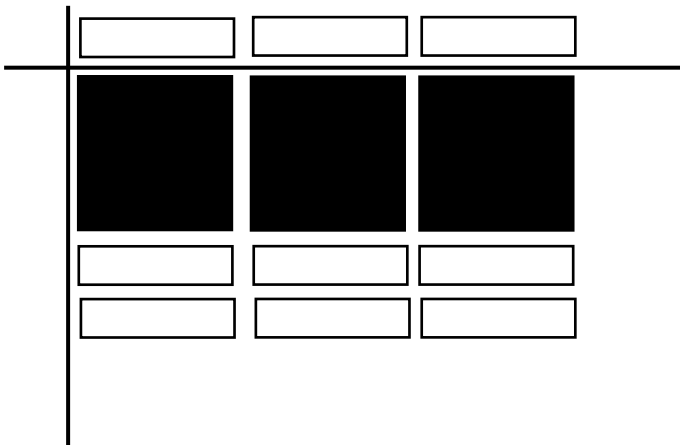
**Math 9: Polynomials Quiz #2**

*Full credit will only be awarded for all work shown in a neat and organized manner.*

1. Draw algebra tiles to multiply  $(-2x)(x - 3)$   
Write your final answer **using variables** as well



2. Complete the algebra tile division shown below  
Write the question and answer **using variables**



3. Simplify.

a)  $(3x^3y^4)(-5yx^2)$

b)  $(-2n^3 + n^2 - 3)(-4n)$

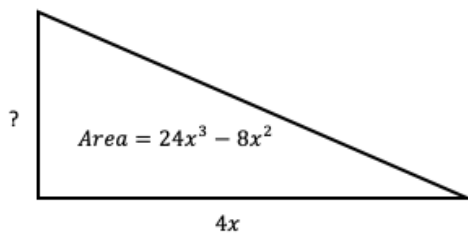
c)  $\frac{15a^2b^8c}{-5a^2b}$

d)  $\frac{4x^5 - 2x^4 + 12x^3}{2x^2}$

e)  $3x(2x - 1) + \frac{4x^2 - 6x + 10}{-2}$

f)  $\frac{-9x^2 + 6x}{3x} - 2(3x^2 - 2x + 4)$

4. Find the height of the triangle



5. For the cube below:

- a) Find the volume
- b) Find the surface area

