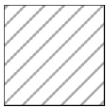
Name: _____ Date: _____

BLM 7–7

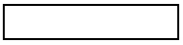
Section 7.2 Extra Practice

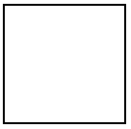
 = positive 1

 = positive x

 = positive x^2

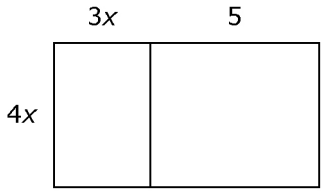
 = negative 1

 = negative x

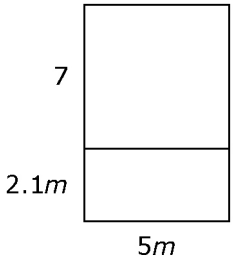
 = negative x^2

1. What polynomial multiplication statement is represented by each area model?

a)



b)



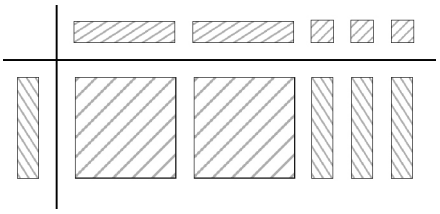
2. Use an area model to expand each expression.

a) $(3x)(2x - 1)$

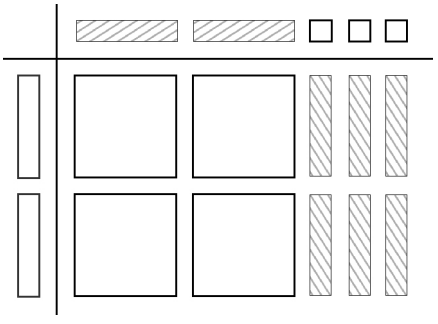
b) $(4d + 3)(3d)$

3. Determine the polynomial multiplication statement shown by the diagrams.

a)



b)



Name: _____ Date: _____

4. Use models to expand each expression.

a) $(4x + 1)(2x)$

b) $(-x)(x + 4)$

c) $(2x)(3x - 1)$

5. Use the distributive property to expand each expression.

a) $(5m)(2m + 3)$

b) $(-n)(n + 1)$

c) $(1.3x)(2x - 5)$

d) $(-m + 2)(3m)$

e) $(4.1k - 5.3)(-3k)$

6. Multiply.

a) $(4m + 1)(3m)$

b) $(2x - 3)(-4x)$

c) $(4.2n)(2n - 7)$

d) $\left(\frac{2}{3}m + 4\right)(-9m)$

e) $\left(\frac{-4}{3}x\right)(6x - 12)$

7. The length of a cement pad on a playground is 3 m longer than the width. The width is $5x$ m.

a) Write an expression for the area of the cement pad.

b) If $x = 2$ m, what is the area of the cement pad?