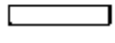
Name: _____ Date: _____

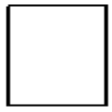
BLM 7–5

Section 7.1 Extra Practice

 = positive x-tile

 = negative x-tile

 = positive x^2-tile

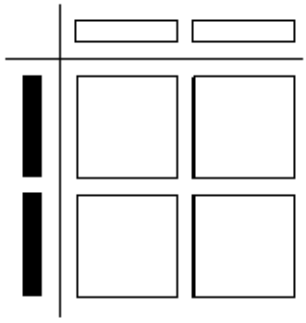
 = negative x^2-tile

 = positive y-tile

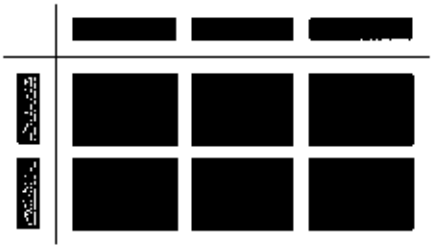
 = positive xy-tile

1. Write a monomial multiplication statement for each set of algebra tiles.

a)



b)



2. Represent each of the following monomial multiplication statements with a model. Determine each product.

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

3. Determine the product of each pair of monomials.

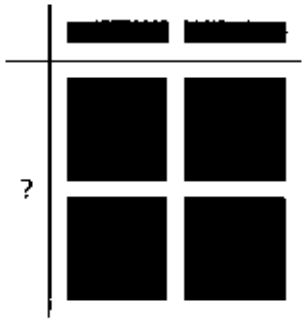
a) $(-4x)(2x)$ **b)** $(3y)(7y)$

c) $(5x)(-3y)$ **d)** $(6m)(-0.2m)$

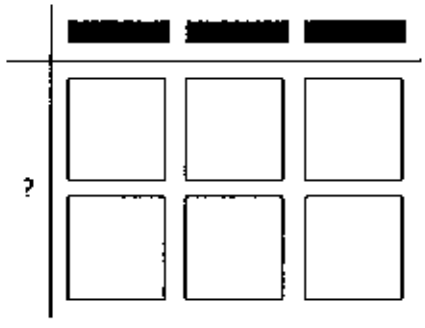
e) $\left(\frac{2}{3}n\right)(12n)$

4. Write a monomial division statement for each set of algebra tiles.

a)



b)



Name: _____ Date: _____

5. Represent each of the following monomial division statements with a model. Determine each quotient.

a) $\frac{8x^2}{4x}$ **b)** $\frac{6xy}{3y}$

6. Determine the quotient of each pair of monomials.

a) $\frac{16x^2}{-8x}$ **b)** $\frac{15xy}{3y}$

c) $\frac{-9mn}{3mn}$ **d)** $\frac{12xy}{8x}$

e) $\frac{-14.2m^2}{2m}$

7. A triangle has a base of $12x$ cm and a height of $3.4x$ cm. What is the area of the triangle?

8. The area of a parallelogram is $25.6x^2$ m^2. Determine the height if the base is $8x$ m.

9. Marko's rectangular lawn has an area of $36x$ m^2. The length of the lawn is 9 m. Marko wants to add a circular cement patio. What is the area of the largest circular patio that he could add? Show all calculations. Use the symbol for pi, π, not an approximate value.