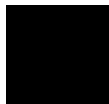



# Section 7.1 Extra Practice


 = positive  $x$ -tile

 = negative  $x$ -tile

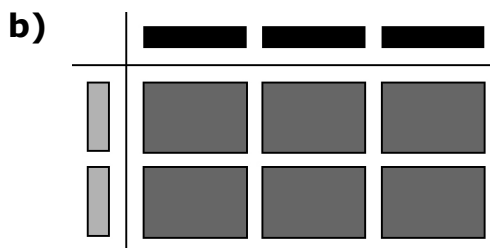
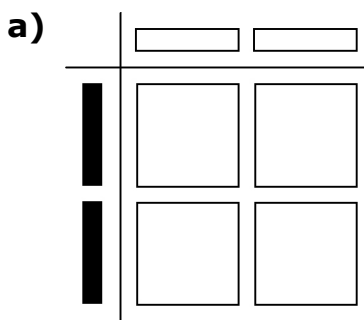
 = positive  $x^2$ -tile

 = negative  $x^2$ -tile

 = positive  $y$ -tile

 = positive  $xy$ -tile

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



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)  $(-4x)(2x)$

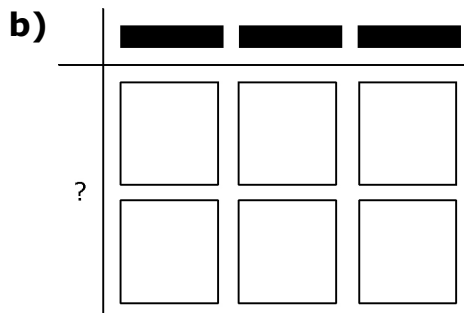
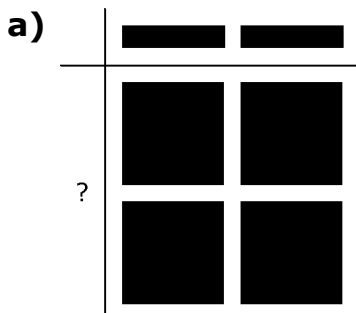
b)  $(3y)(7y)$

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.



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

Date: \_\_\_\_\_

**BLM 7-5**  
(continued)

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<sup>2</sup>. Determine the height if the base is  $8x$  m.

9. Marko's rectangular lawn has an area of  $36x$  m<sup>2</sup>. 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,  $\pi$ , not an approximate value.

