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BLM 7–3

Section 7.1 Extra Practice

= positive x-tile

= positive x^2-tile

= positive y-tile

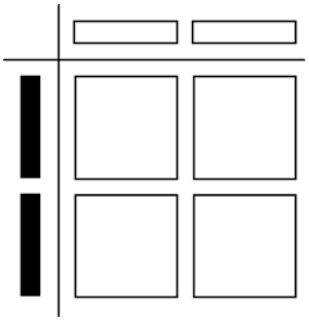
= negative x-tile

= negative x^2-tile

= positive xy-tile

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

a)



b)

(_____x)(−_____x) = −_____x^2

2. Show each of the following monomial multiplication statements with a model. Find each product.

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

b) $(x)(4x)$

$(-3x)(-2x)$= _____

_____

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3. Find the product of each pair of monomials.

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

$=(-4)\times (2) \times (x) \times (x)$

$=$_____

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

c) $(5x)(-3y)$

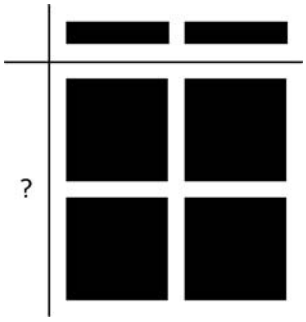
d) $(6m)(-0.2m)$

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

f) $(-2.1y)(-4y)$

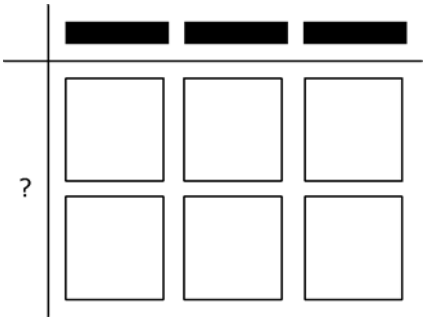
4. Write a monomial division statement for each set of algebra tiles.

a)



$$\frac{\square x^2}{2x} = \_\_\_\_\_$$

b)



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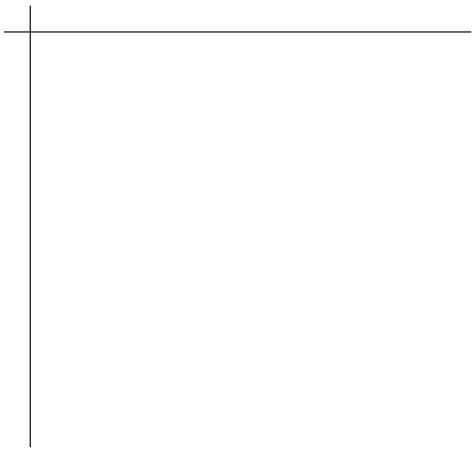
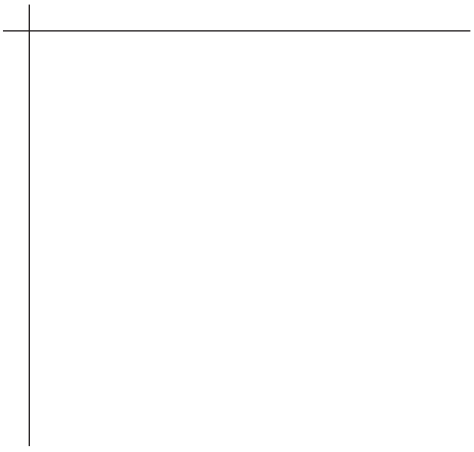
5. Show each of the following monomial division statements with a model. Find each quotient.

a) $\frac{8x^2}{4x}$



b) $\frac{6xy}{3y}$



$\frac{8x^2}{4x} =$ _____

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

f) $\frac{-25.5x^2}{5x}$

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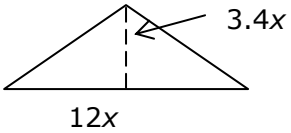
(continued)

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

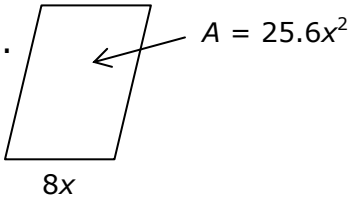


$$A = \frac{b \times h}{2}$$

Substitute into the formula.

Simplify.

8. The area of a parallelogram is $25.6x^2$ m². Find the height if the base is $8x$ metres.



$$h = \frac{A}{b}$$

Substitute into the formula.

Simplify.

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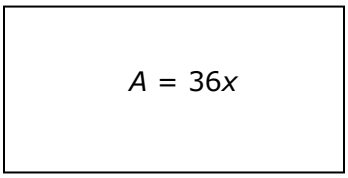
9. Marko's rectangular lawn has an area of $36x$ m². The length of the lawn is 9 metres.



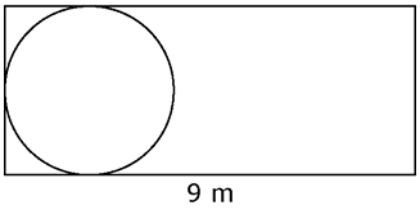
a) Find the width of the rectangle.

$$w = \frac{A}{l}$$

Substitute into the formula.

Simplify.

b) Marko wants to add a circular cement patio.
What is the area of the largest circular patio that he could add?
Show your work.
Use π for pi, not an approximate value.



diameter = width of the rectangle

diameter = _____ metres

radius = _____ metres

Area of circular patio:

$A = \pi r^2$

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