


Name: _____


Date: _____


BLM 7-9

Section 7.3 WS


 = positive 1-tile

 = positive x -tile

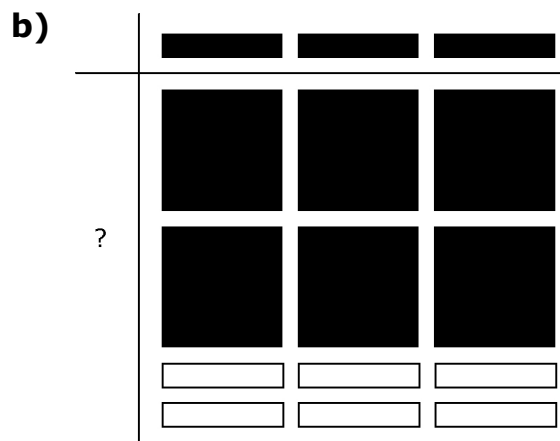
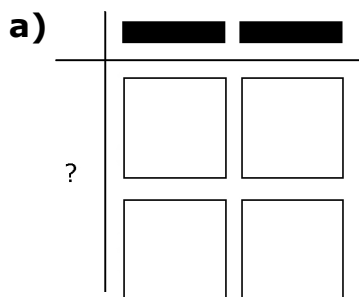
 = positive x^2 -tile

 = negative 1-tile

 = negative x -tile

 = negative x^2 -tile

1. What polynomial division statement is represented by the algebra tiles? Determine the quotient.



2. Use a model to divide each expression. Check your answer with algebra.

a) $\frac{9x^2 - 3x}{3x}$

b) $\frac{4x^2 + 6x}{2x}$

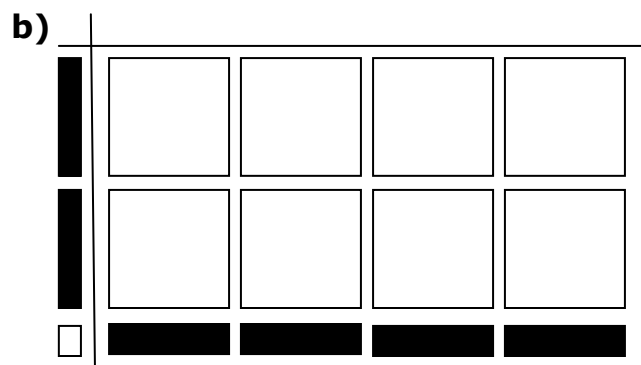
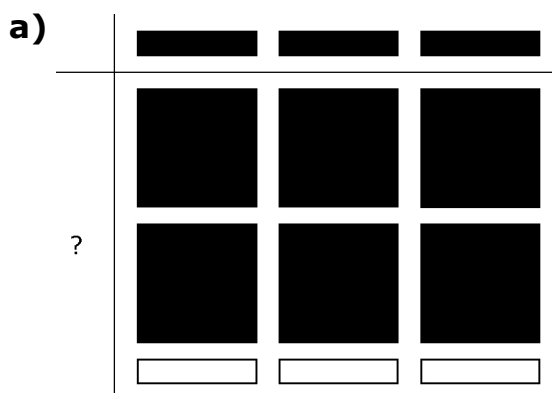
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(continued)

3. Determine the polynomial division statement shown by the algebra tiles. Determine the quotient.



4. Use algebra tiles to divide each of the following expressions.

a) $\frac{4x^2 - 6x}{-2x}$

b) $\frac{9x^2 + 6x}{3x}$

5. Divide.

a) $\frac{15x^2 - 20x}{5x}$

b) $\frac{16m^2 + 20mn}{4m}$

c) $\frac{18k^2 - 9k}{9k}$

d) $\frac{12m + 18mn}{-6m}$

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BLM 1-1
(continued)**(B and A level)**

5. e)
$$\frac{1.4d^2 + 1.8d - 1.6d}{2d}$$

f)
$$\frac{9c^2 - 12c + 6}{-3}$$

- 6.** You are decorating the bulletin board in your classroom with pictures of your classmates. Each picture covers an area of $4x \text{ cm}^2$. The area of the board is $4x^2 + 16x \text{ cm}^2$. Write an expression to represent how many pictures are required to cover the board.

- 7.** A rectangular lawn has a width of $3x \text{ m}$. The area is $15x^2 + 45x \text{ m}^2$. You wish to put a fence around the lawn.

a) What is an expression to represent the perimeter of the lawn?

b) You are placing a post every 2 m. Find an expression to represent how many posts will be required.