Date: _____

Section 7.3 Extra Practice



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



?	







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BLM 7-5 (continued)

2. Use a model to divide each expression. Find the quotient.



3. Write the polynomial division statement shown by the algebra tiles. Find the quotient.







BLM 7-5 (continued)

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



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

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



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BLM 7–5 (continued)

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

= $\frac{1.4d^2}{2} + \frac{1.8d}{2} - \frac{1.6}{2}$
=

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.

Sentence: _____

7. A rectangular lawn has a width of 3x metres . The area is $15x^2 + 45x$ m². You wish to put a fence around the lawn.

 $A = 15x^2 + 45x$

a) Write an expression for the length of the rectangle.¹

3*x*

 $\mathsf{length} = \frac{\mathsf{Area}}{\mathsf{width}}$

b) Write an expression to show the perimeter of the lawn.

Perimeter = $(2 \times \text{length}) + (2 \times \text{width})$

c) You are placing a post every 2 m. Write an expression to show how many posts will be required.

