




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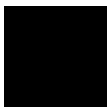
Section 7.2 Extra Practice


 = positive 1

 = negative 1

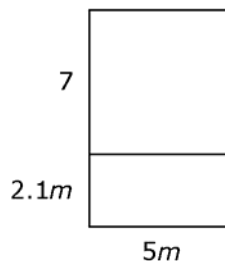
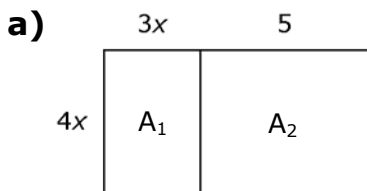
 = positive x

 = negative x

 = positive x^2

 = negative x^2

1. What polynomial multiplication statement is represented by each area model?



$$A_1 = (4x)(\underline{\hspace{2cm}}x)$$

$$= \underline{\hspace{2cm}}x^2$$

$$A_2 = 4x(5)$$

$$= \underline{\hspace{2cm}}x$$

$$A_1 + A_2$$

$$= \underline{\hspace{2cm}}x^2 + \underline{\hspace{2cm}}x$$



2. Use an area model to expand each expression.

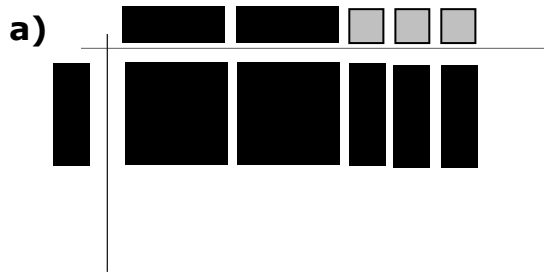
a) $(3x)(2x - 1)$



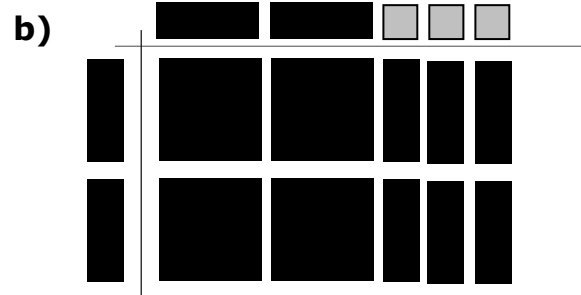
b) $(4m + 3)(3m)$



3. Find the polynomial multiplication statement shown by the diagrams.



$(\underline{\quad}x)(\underline{\quad}x + \underline{\quad})$
 $= \underline{\quad}x^2 + \underline{\quad}x$



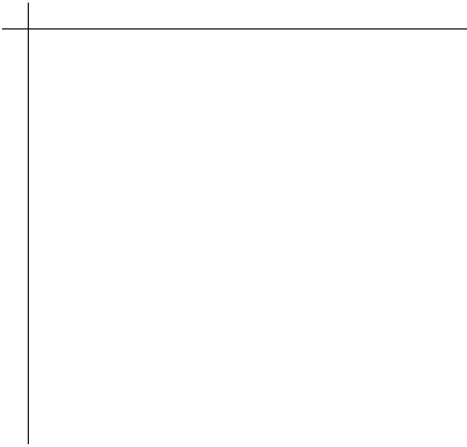


Name: _____ Date: _____

BLM 7-4
(continued)

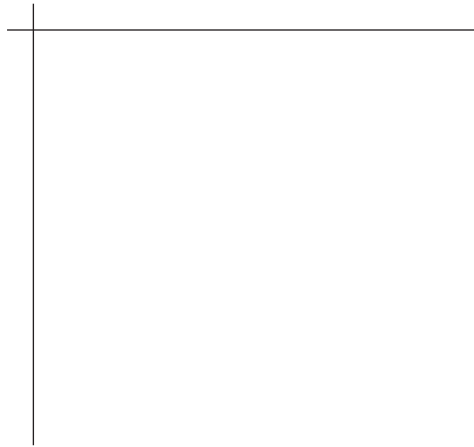
4. Use models to expand each expression.

a) $(4x + 1)(2x)$



$(4x + 1)(2x) =$ _____

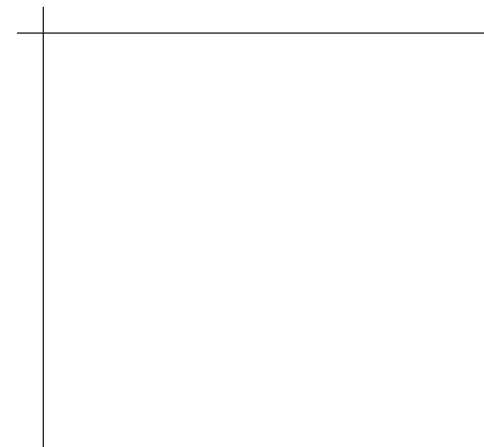
b) $(-x)(x + 4)$



c) $(2x)(3x - 1)$



d) $(-x)(x - 1)$





5. Use the distributive property to expand each expression.

$$\begin{aligned} \text{a) } & (5m)(2m + 3) \\ & = (5m)(2m) + (5m)(3) \\ & = \underline{\hspace{2cm}}m^2 + \underline{\hspace{2cm}}m \end{aligned}$$

$$\text{b) } (-n)(n + 1)$$

$$\text{c) } (1.3x)(2x - 5)$$

$$\text{d) } (3m)(-m + 2)$$

$$\text{e) } (-3k)(4.1k - 5.3)$$

$$\text{f) } (-5b)(1.1b - 2)$$

6. Multiply.

$$\begin{aligned} \text{a) } & (4m + 1)(3m) \\ & = (3m)(4m + 1) \end{aligned}$$

Rewrite.

Multiply.

$$\text{b) } (2x - 3)(-4x)$$

$$\text{c) } (4.2n)(2n - 7)$$

$$\text{d) } \left(\frac{2}{3}m + 4\right)(-9m)$$



Name: _____ Date: _____

BLM 7-4
(continued)

7. The length of a cement pad on a playground is 3 metres longer than the width. The width is $5x$ metres.

a) Write an expression for the length of the cement pad. _____

b) Write an expression for the area of the cement pad.

Area = length \times width

b) If $x = 2$ m, what is the area of the cement pad?

Substitute $x = 2$
into your answer
from part b).

