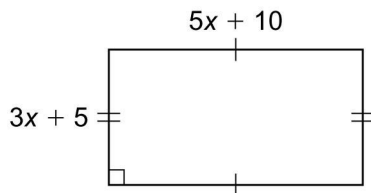


Extra Practice 7.1

- Which pairs of terms represent like terms? Explain.
 - $2x, -5x$
 - $3, 4x$
 - $10, 2$
 - $2x^2, -3x^2$
 - $8x, -x$
 - $2x^3, 4x^2$
- Simplify: $4x + 8 - 2x + 4$
- Can $2x^2 + 5x$ be simplified? Explain.

Extra Practice 7.2

- Add.
 - $(4x + 3) + (8x - 2)$
 - $(x^2 + 3x - 4) + (2x^2 + 5x + 2)$
- Determine two polynomials whose sum is $3x^2 + 8x - 2$.
- Write a polynomial that represents the perimeter of the rectangle.



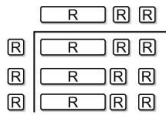
Extra Practice 7.3

- What is the opposite of $2x + 1$?
 - Use the result from part a to determine $(8x + 5) - (2x + 1)$.
- Subtract: $(4x^2 - 10x + 2) - (2x^2 - 2x + 4)$

3. Determine two polynomials whose difference is $2x^2 + 4x - 2$.

Extra Practice 7.4

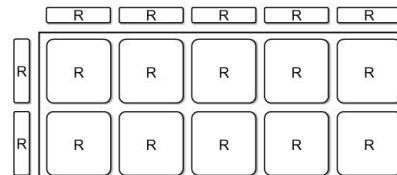
1. Which product does the following set of tiles represent?
Determine the product



2. Determine the product of $4(2x + 3)$.
3. Expand: $-2(5x^2 + 3x - 4)$

Extra Practice 7.5

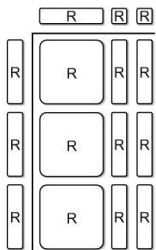
1. Write the product modelled by the tiles.
Determine the product.



2. Multiply.
- a) $(2x)(4x)$ b) $(3x)(4x^2)$
3. Multiply.
- a) $(-2)(5x)$ b) $(-2x^2)(5x)$

Extra Practice 7.6

1. Write the product modelled by the tiles.
Determine the product.



2. Expand: $3x(2x + 1)$

3. Expand: $-2x(4x^2 - 3x + 5)$

Extra Practice 7.1 to 7.7, Answers

Extra Practice 7.1

1. a, c, d, e

2. $2x + 12$

3. No. There are no like terms.

Extra Practice 7.2

1. a) $12x + 1$ b) $3x^2 + 8x - 2$

2. Answers can vary: for example, $x^2 + 3x - 6$ and $2x^2 + 5x + 4$

3. $16x + 30$

Extra Practice 7.3

1. a) $-2x - 1$ b) $6x + 4$

2. $2x^2 - 8x - 2$

3. Answers can vary: for example, $3x^2 + 8x + 6$ and $x^2 + 4x + 8$

Extra Practice 7.4

1. $3(x + 2) = 3x + 6$

2. $8x + 12$

3. $-10x^2 - 6x + 8$

Extra Practice 7.5

1. $(5x)(2x) = 10x^2$

2. a) $8x^2$

b) $12x^3$

3. a) $-10x$

b) $-10x^3$

Extra Practice 7.6

1. $3x(x + 2) = 3x^2 + 6x$

2. $6x^2 + 3x$

3. $-8x^3 + 6x^2 - 10x$