

Name:

Date:

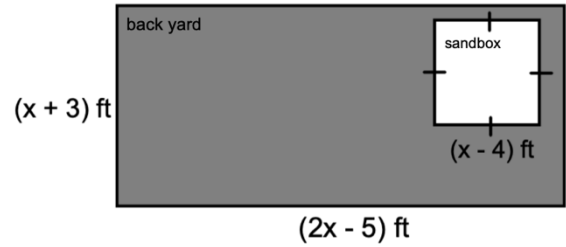
Hour:

Algebra 1  
WS 7.7B Application Practice

1. The area covered by grass seed in your back yard is represented by the expression  $6x^2 + 13x + 6$  square yards.
  - a. Find the length and width of your backyard.
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  - b. Write the expression to represent the perimeter of your back yard.
  
2. The area of a rectangle is represented by the expression  $9x^2 - 4$ . Find the length of the sides of the rectangle.
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
3. The length of a rectangle is represented by  $4x^2y$ . If the area of the rectangle is  $24x^3y + 42x^2y^3$ , find the width of the rectangle.
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
  
4. The area of a rectangular swimming pool is  $3x^2 - 17x - 6$ . Find the expressions that represent the length and width of the swimming pool.

5. You are wanting to put in a sand box in your back yard. The dimensions of your back yard are below.

- a. Write a polynomial to represent the area of your back yard before you put in the sandbox.



- b. Write a polynomial to represent the area of your sandbox.

- c. You are going to seed your back yard after you put in your sandbox. Write a polynomial to represent how much area will you need to seed?