Name _____ Date _____

Area and Perimeter Formulas for Rectangles: Rooms, Fences and Missing Sides

Directions: For a rectangle, area = length × width and perimeter = 2 × length + 2 × width. Read each problem to see which one it asks for.

1. The rectangular stage in the school gym is 16 feet long and 8 feet wide. Use the formula area = length × width. How many square feet does the stage cover?

   _____ square feet

2. Workers will fence a rectangular dog park that measures 45 meters by 30 meters. How many meters of fence go around the whole park?

   _____ meters

3. Which job needs a yard's perimeter, not its area?

   A. putting a fence around the yard

   B. covering the yard with grass seed

   C. laying square stones over the whole yard

   D. spreading mulch over the whole yard

4. The floor of a rectangular room has an area of 91 square feet. The room is 7 feet wide. How long is the room?

   _____ feet

5. Find both measures of the same sandbox. Fill in the two numbers.

   A sandbox has the shape of a rectangle with a length of 9 feet and a width of 7 feet. Its perimeter is _____ feet, and its area is _____ square feet.

6. Ms. Okafor hangs 64 feet of string lights around the edge of a rectangular deck. The lights go around the deck exactly once. The deck is 20 feet long. How wide is the deck?

   _____ feet

7. Two rabbit pens each use 24 meters of fence. Pen A is a rectangle 10 meters long and 2 meters wide. Pen B is a square with sides 6 meters long. Which sentence is true?

   A. Pen A has more area for the rabbits.

   B. Pen B has more area for the rabbits.

   C. The pens have the same area, because they use the same amount of fence.

8. Carpet costs $4 for each square foot. A bedroom floor is a rectangle with sides of 13 feet and 9 feet. How much does new carpet for the whole floor cost?

   _____ dollars