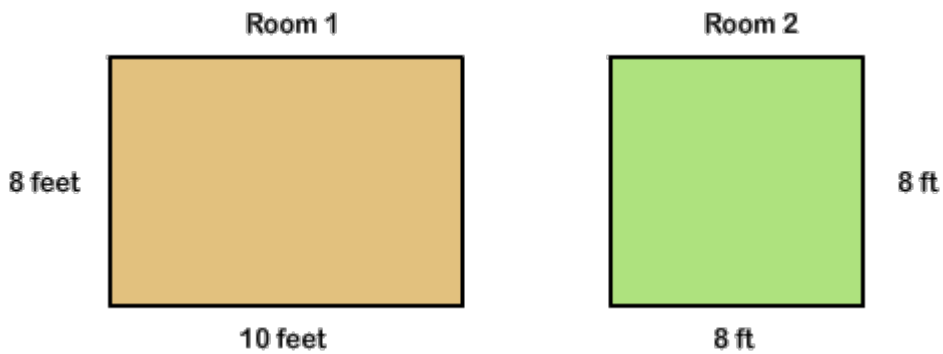


Applications of Area and Perimeter

Lauren is replacing the carpet in two rooms. One room is 8 feet wide and 10 feet long, and the second room is 8 feet wide and 8 feet long. What is the total area of carpet that Lauren will need for both the rooms?

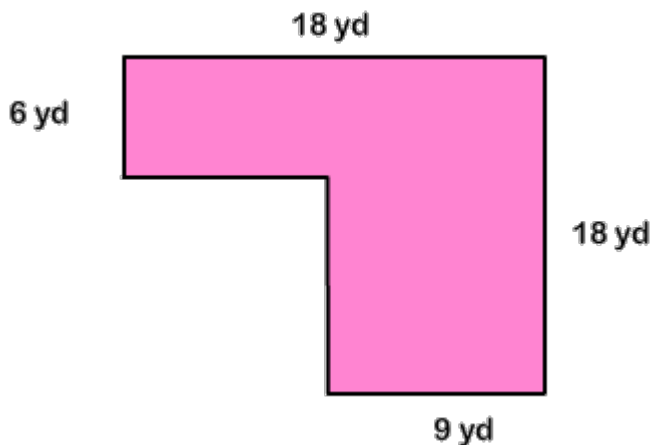
1.



square feet

Daniel needs to paint the base area of his L-shaped pool. Dimensions of the pool are given in the figure below. What is the total area of Daniel's pool that will be painted?

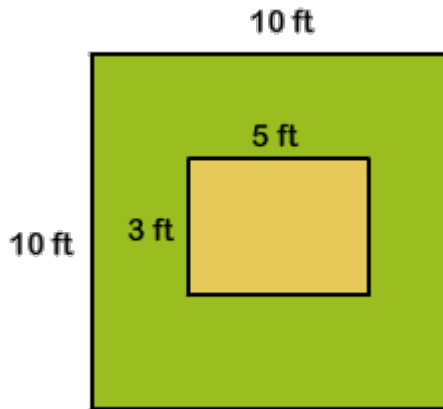
2.



square yards

Amber just bought a new rectangular desk in her office which is 3 feet wide and 5 feet long. Her office floor is 10 feet by 10 feet in size. Find the total area of space left in the office after the desk is brought in.

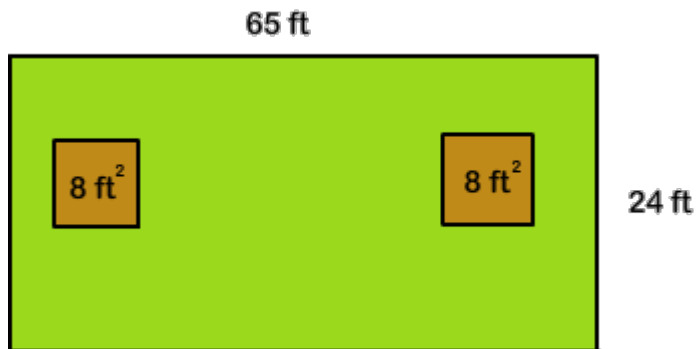
3.



square feet

Eric and Matt have to paint the front of their parent's rectangular barn. The barn is 65 feet long and 24 feet wide. There are two square windows on the front of the barn that will not be painted. Each window has an area of 8 square feet. What is the total area of barn that will be painted?

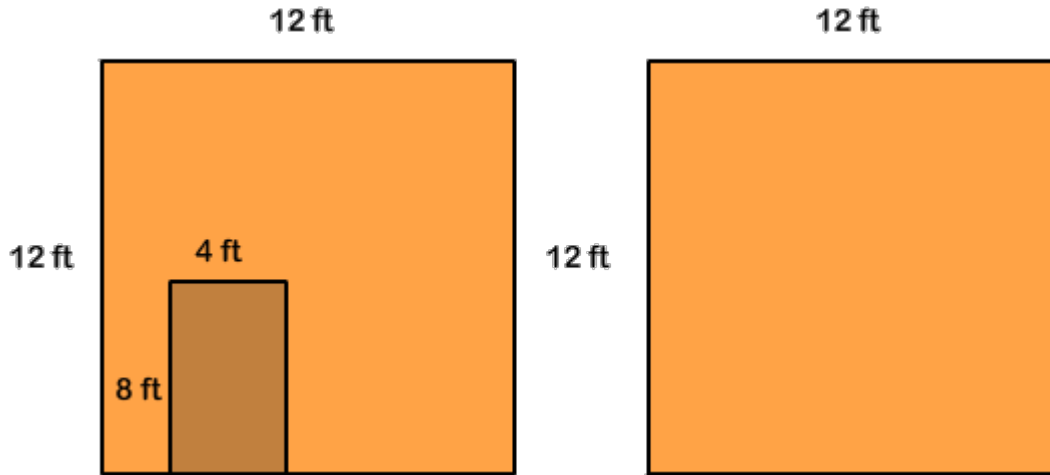
4.



square feet

Amanda needs to paint two walls of her room. In her room, there are 2 square walls and each wall is 12 feet wide and 12 feet tall. One wall has a rectangular door that is 8 feet tall and 4 feet wide that will not be painted. What is the total area of Amanda's room that will be painted?

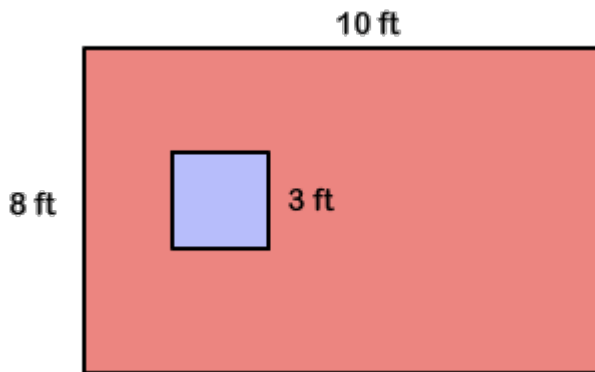
5.



square feet

Deanna needs to put up wallpaper on her rectangular bedroom wall. The wall is 8 feet tall and 10 feet wide. There is a square window that measures 3 feet on one side. How much wallpaper will Deanna need?

6.



square feet

Mac's dining room is 9 feet wide and 14 feet long with each opposite side being congruent. He wants to install a new wooden floor. It will cost \$7.00 per square foot. How much will Mac's new wooden floor cost?

7. \$

Deanna's backyard needs a new fence. The backyard is 10 yards long and 8 yards wide with each opposite side being congruent. It costs \$3.50 per yard to install a fence. How much would it cost Deanna to install a new fence?

8. \$214.00
 \$126.00
 \$159.00
 \$250.00

Sam needs to build a new rectangular barn. The new barn will be 35 yards long and 20 yards wide. Wood costs \$5.00 per square yard. How much would it cost for Sam to build a new barn?

9. \$

Luke put together a rectangular puzzle that is 24 yards long and 36 yards wide. He wants to put a board behind the puzzle. The board will cost \$2.00 per square yard. How much would it cost Luke to purchase the board?

10. \$

Elizabeth needs to put Christmas lights around the rectangular roof of her room that is 65 yards wide and 14 yards long. It costs \$0.50 per yard to put Christmas lights. How much would it cost Elizabeth to put up lights around the roof of her room?

11. \$

The sides of a square-shaped room measures 9 feet. Stephanie wants to buy carpet to cover the floor of the room. If the carpet costs \$3.00 per square foot, how much will it cost to buy carpet for the room?

12. \$81.00
 \$394.00
 \$243.00
 \$199.00

A photograph is 6 inches wide and 10 inches tall with each opposite side being congruent. A frame shop charges \$1.00 per inch for a silver frame. How much would it cost to buy a silver frame for the photograph?

13. \$56.00
 \$32.00
 \$24.00
 \$41.00

Emily wants to purchase new carpet for her rectangular living room. The room is 14 feet wide and 18 feet long. There is also a rectangular fireplace that is 3 feet wide and 5 long that takes up a portion of the room. Carpet costs \$3.00 per square foot. How much would it cost Emily to carpet the room?

14. \$756.00
 \$698.00
 \$711.00
 \$521.00

Eli has to paint a rectangular wall in his living room that is 10 feet wide and 13 feet long. There is a square window with an area of 9 ft² that will not be painted. Paint costs \$2.00 per square foot. How much would it cost Eli to paint the walls?

15. \$242.00
 \$121.00
 \$91.00
 \$200.00