

1. A rectangle has an area of 96 square feet. If the length of the rectangle is 12 feet, what is the perimeter?
2. A box has a length of 8 inches, a width of 6 inches, and a height of 4 inches. What is the volume? What happens to the volume when you double the height?
3. Brent plans to stain a deck that is 14 feet by 8 feet. If one can of stain covers an area of 100 square feet, how many cans of stain will he need? Explain.
4. Lauren uses 50 feet of wood to make a rectangular garden bed. If the length of the garden bed is 10 feet, what is the width?

5. Blake orders a box of cube-shaped beads. The beads are neatly stacked in layers, with the same number of beads in each layer. Each layer is 12 beads across and 7 beads wide. There are 4 layers. How many beads does he receive?

6. Traci had an "L" shaped piece of felt. Her mom cut it into two rectangles. One rectangle measured 4 inches by 9 inches, and the other measured 4 inches by 3 inches. What is the total area of the two rectangles?

7. Maya wants to tile the floor of her kitchen. Each tile has an area of 4 square feet. The floor of her kitchen is 11 feet by 16 feet. How many tiles does she need?

8. The number cubes the fifth grade math classes use are packed into a box. When the box is full, it has 5 rows of 4 cubes with 6 layers of cubes. Mrs. Craft sees that one layer of cubes is missing from the box. How many number cubes are in the box?

9. Grant is painting a wall that is 9 feet by 18 feet. So far, he has painted a part of the wall that is 4 feet by 7 feet rectangle. What is the area of the part of the wall that Grant has left to paint?
10. The back of a moving van has a length of 4 yards, a width of 2 yards, and height of 3 yards. How many cubic feet is the moving van?
11. Ashley wants to put a string of lights around a rectangular window that is 32 inches wide and 40 inches high. How long will the string of lights need to be to go around the window?
12. A cube has side lengths of 9 centimeters. What is the volume of the cube?

13. A baseball diamond is a square with a perimeter of 360 feet. What is the length of one side?
14. Jules buys two small rugs for her living room. One rug measures 3 feet by 5 feet. The other rug measures 4 feet by 6 feet. What is the area of the part of the kitchen the two rugs will cover?
15. Rich is building a travel crate for his dog, Thomas, a beagle-mix who is about 30 inches long, 12 inches wide, and 24 inches tall. For Thomas to travel safely, his crate needs to be a rectangular prism that is about 12 inches greater than his length and width, and 6 inches greater than his height. What is the volume of the travel crate that Rich should build?