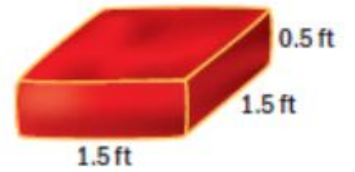


Draw a diagram and label it with the information from the question. Show all workings to find the surface area.

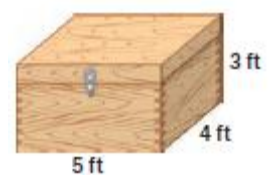
1. Mr. Bill wants to paint a rectangular toy box for his son. It has a width of 2 feet, length of 6 feet, and a height of 2 feet. If one pint of paint will cover 20 square feet, then how many pints of paint will it take to paint the toy box?
2. Find the surface area of a rectangular prism that has a width of 3.6 ft, a length of 7.2 ft and a height of 10.1 ft.
3. Mary is wrapping a can of paint as a gag gift for a friend. If the can is 11 inches high and has a diameter of 7 inches, how many square inches of wrapping paper will she use in completely covering the can?

4. You are making the stadium cushion shown. The fabric costs \$.50 per square foot. How much does it cost to make the cushion?



5. As a project in tech class, the students are making aluminum flower pots shaped like cylinders. There is a bottom on each pot, but no top. If the pots are 9" in height and have a diameter of 12", how many square inches of aluminum are needed for each pot?

6. You are building a storage box out of plywood using the dimensions shown. Plywood costs \$1.50 per square foot. Find the total cost of the plywood.



7. A cylindrical tube needs to be painted on the inside as well as on the outside. It is open on both ends. If the diameter of the tube is 18 cm, and it is 110 cm in length, what is the total surface area of this tube which will be painted?
8. You are wrapping a gift box that is 18 inches by 12 inches by 3 inches. What is the least amount of wrapping paper you need in order to wrap the box?
9. Find the surface area of a can which is 60 mm tall and has a diameter of 32mm.

10. Sam is making a cylindrical container. The radius he is using for the circular bases is 7". What is the length of the rectangular sheet of metal he is using for the "tube"?
11. A quarter is really a very short cylinder. It's height is about 1 mm, and it's diameter is about 24 mm. Find the surface area of a quarter.
12. A room is 13 feet long, 11 feet wide, and 10 feet high. In the room, there are three windows that are each 4 feet wide and 5 feet tall. If one gallon of paint covers 350 square feet, how many gallons of paint do you need to paint the walls and door of the room?