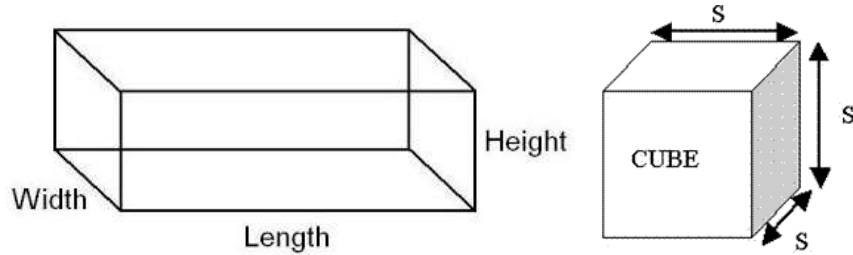


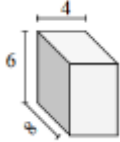
Volume

Cubes and Rectangular Prisms

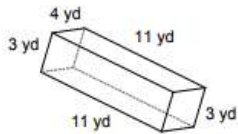


The **volume** of a rectangular prism or a cube is equal to the product of the length, the width and the height. For a rectangular prism $V = l \cdot w \cdot h$. For a cube, all sides are equal so $V = s^3$. Where s is the length of a side.

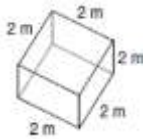
1. Find the volume of the **rectangular prism**.



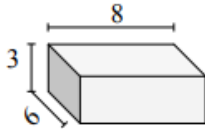
-
2. Find the volume of the **rectangular prism**.



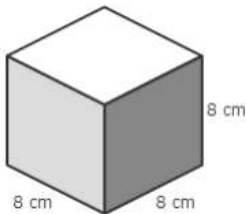
-
3. Find the volume of the **cube**.



-
4. Find the volume of the **rectangular prism**.

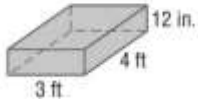


-
5. Find the volume of the **cube**.



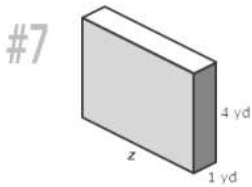
6.

The weight of water is 0.036 pounds times the volume of water in cubic inches. How many pounds of water would fit into a rectangular child's pool that is 12 inches deep, 3 feet wide, and 4 feet long?



Be sure to convert everything to inches first!

7.

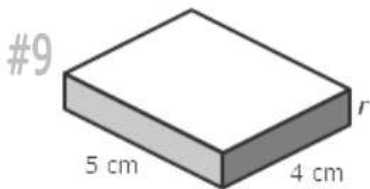


The volume of this rectangular prism is 24 yd^3 .
What is the missing measurement for z ?

8.

A rectangular prism has a base with a length of 25, a width of 9, and a height of 12. A second prism has a square base with a side of 15. If the volumes of the two prisms are equal, what is the height of the second prism?

9.



The volume of this rectangular prism is 20 cm^3 .
What is the missing measurement for r ?

10. The volume of a cube is 64. Find the length of a side.

