

## Volume of rectangular prisms (customary units)

## Grade 5 Word Problems Worksheet

1.	A cube is a rectangular prism with the same measurement for length,
	width, and height. If a cube is 4 inches tall, what is its volume?

2. A desk is 1.5 feet wide and 5 feet long. It is 3 feet above the floor. What is the volume of space under the desk?

3. A drawer is 5 feet wide, 4 feet deep and 2 feet tall. What is the volume of the drawer?







5. The closet is 6 feet wide, 5 feet deep and 8 feet tall. In the closet, there is a suitcase that is 2 feet wide, 3 feet long and 4 feet tall. How much room is left in the closet?



## **Answers**

- 1. 4 x 4 x 4 = 64

  The volume of the cube is 64 cubic inches.
- 2.  $3 \times 1.5 \times 5 = 22.5$ The volume of space under the desk is 22.5 cubic feet.
- 3.  $5 \times 4 \times 2 = 40$ The volume of the drawer is 40 cubic feet.
- 4.  $2 \times 3 \times 2 \times 3 = 36$ The volume of a tower built by 3 blocks is 36 cubic inches.
- 5.  $6 \times 5 \times 8 2 \times 3 \times 4 = 240 24 = 216$ The room left in the closet is 216 cubic feet.