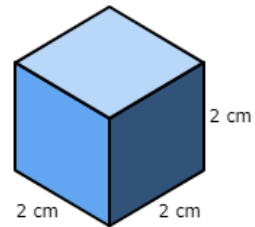# Volume:

_____ is the amount of space taken up by an object
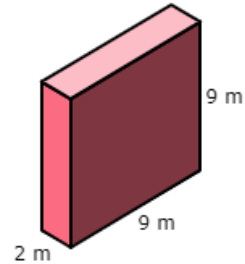
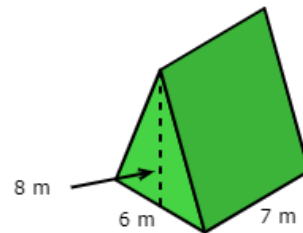**Rectangular prism:**   **Triangular prism:**

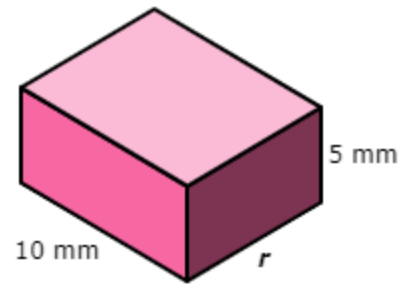**Example 1:** Find the volume of the cube.

2 cm

2 cm   2 cm

Example 2: Find the volume of the prism.

9 m

9 m

2 m

Example 3: Find the volume of the triangular prism.

8 m

6 m   7 m

Example 4: The volume of this rectangular prism is 400 cubic millimeters. What is the value of r?

5 mm

10 mm

r

Example 5: Westwood Grocery Store needs a new freezer for popsicles and ice cream bars. The owner finds a freezer that is 4 feet long, 2 feet wide, and 3 feet tall. What is the volume of the freezer?

Example 6: Mason's dad, a veterinarian, just got a job in New Zealand working to protect the country's national bird, the flightless kiwi bird. Their family is sending their minivan over in a shipping container shaped like a rectangular prism. The container's volume is 1,120 cubic feet. It is 20 feet long and 8 feet wide.What is the height of the shipping container?

Example 7: A rectangular prism is ¾ of an inch wide and 1 ½ inches tall. The prism's volume is 1 ⅞ cubic inches.What is the length of the prism?