VOLUME of Rectangular Prisms
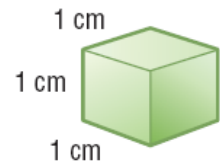
- Volume is the measure of _____ occupied by a solid region.

The **formula for the **volume of a rectangular prism** is:**

_____

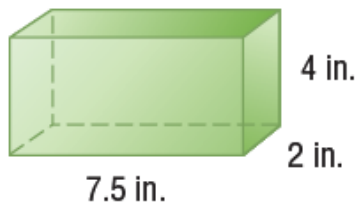**l = length   w = width   h = height**

Study Tip:
When measuring volume, the units will be "**cubed**." A cubic centimeter (cm³) is a cube whose edges all measure 1 centimeter.
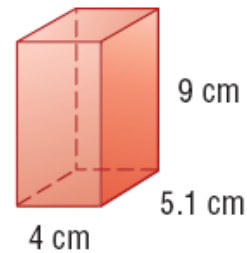
Examples:

Find the **volume** of each rectangular prism. Round to the nearest tenth if necessary.
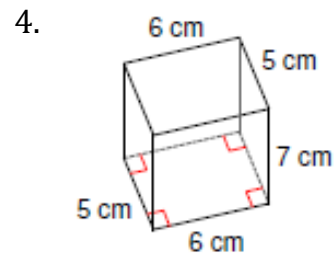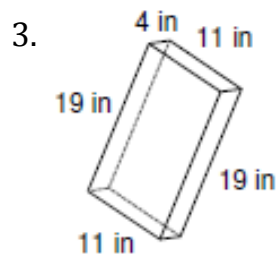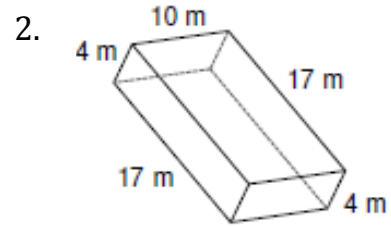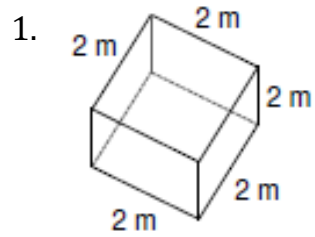
1.

4 in.
2 in.
7.5 in.

2.

9 cm
5.1 cm
4 cm

3. Find the **volume** of a fish tank that is 8 feet long and 5 feet wide, if the height is 5.5 feet?

You try!!

1.

2 m
2 m
2 m
2 m
2 m

2.

10 m
4 m
17 m
17 m
4 m

3.

4 in
11 in
19 in
19 in
11 in

4.

6 cm
5 cm
7 cm
5 cm
6 cm

5. A rectangular prism measuring 10 m and 7 m along the base and 12 m tall.

6. A square prism measuring 6 km along each edge of the base and 5 km tall.

7. A cube measuring 9 in along each edge.