Name_

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.



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!!



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.



8 in.

5 in.

6 in.

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Volume of Rectangular Prisms



V = Bh or $V = \ell wh$

EXAMPLE (1) Find the volume of the rectangular prism.

find the product of the length ℓ , the width w, and the height h.

- $V = \ell w h$ Volume of a rectangular prism
- $V = 5 \cdot 6 \cdot 8$ Replace ℓ with 5, *w* with 6, and *h* with 8.

V = 240Multiply.

The volume is 240 cubic inches.

EXERCISES

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



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Practice: Skills

Volume of Rectangular Prisms

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

