G5-M5-Lesson 9

Find three rectangular prisms around your house. Describe the item you are measuring (e.g., cereal box, tissue box), and then measure each dimension to the nearest whole inch and calculate the volume.

a. Rectangular Prism A

   Item: *Cereal box*

   > I will measure a cereal box, and then multiply the three dimensions to find the volume.

   Height: _____12_____ inches

   Length: _____8_____ inches

   Width: _____3_____ inches

   Volume: _____288_____ cubic inches

   > Volume = length × width × height
   > = 8 in × 3 in × 12 in
   > = 288 in^3

b. Rectangular Prism B

   Item: Tissue box

   > I will measure a tissue box, and then multiply the three dimensions to find the volume.

   Height: _____3_____ inches

   Length: _____9_____ inches

   Width: _____5_____ inches

   Volume: _____135_____ cubic inches

   > Volume = length × width × height
   > = 9 in × 5 in × 3 in
   > = 45 in^2 × 3 in
   > = 135 in^3

   > The volume of the tissue box is 135 cubic inches.

EUREKA MATH   Lesson 9:   Apply concepts and formulas of volume to design a sculpture using rectangular prisms within given parameters.   17

©2015 Great Minds. eureka-math.org
G5-M1-HWH-1.3.0-07.2015