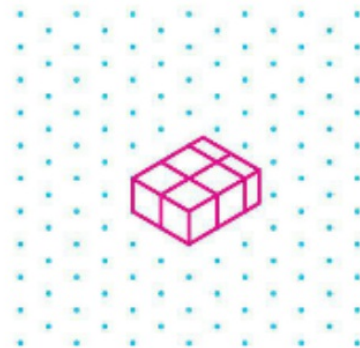# Hands-On Activity 3

You can use cubes of candy to find the volume of rectangular prisms with fractional sides.

Step 1 Cut one piece of candy into two halves.

Step 2 Make a model that is $2\frac{1}{2}$ cubes long, 2 cubes wide, and 1 cube tall. Draw a picture of your model.

Step 3 Count the number of cubes used to build the model. The model uses **4**_____ whole cubes and **2**_____ half-cubes.

Two halves equal one whole. So, a total of **5**_____ cubes were used.

So, the volume of the prism is **5**_____ cubic units.

Compare the product of the dimensions of the prism with its volume.

$2\frac{1}{2}$_____ $\times$ **2**_____ $\times$ **1**_____ = **5**_____

They are **the same**_____.

CCSS **Model with Mathematics** Work with a partner. Use models to determine the volume of each prism. Draw a diagram of each model in the space provided.

1. length: 1
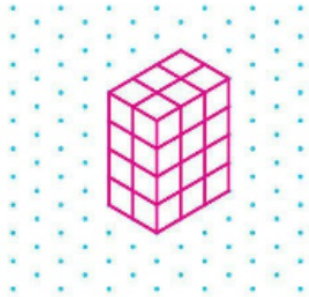   height: 1
   width: 1
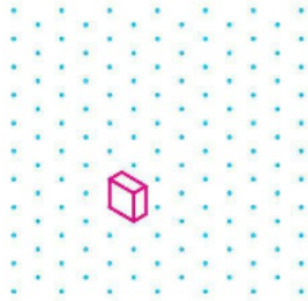   volume: **1 cubic unit**

Show your work.

2. length: 2
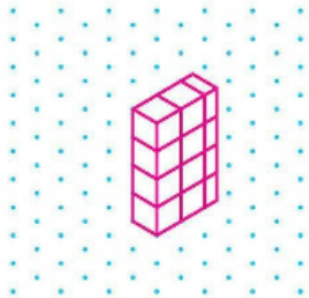   height: 4
   width: 1
   volume: **8 cubic units**

3. length: 3
height: 4
width: 2
volume: **24 cubic units**

4. length: $\frac{1}{2}$
height: 1
width: 1 $\frac{1}{2}$ **cubic unit**
volume:

5. length: $2\frac{1}{2}$
height: 4
width: 1
volume: **10 cubic units**

6. length: $3\frac{1}{2}$
height: 2
width: 2
volume: **14 cubic units**