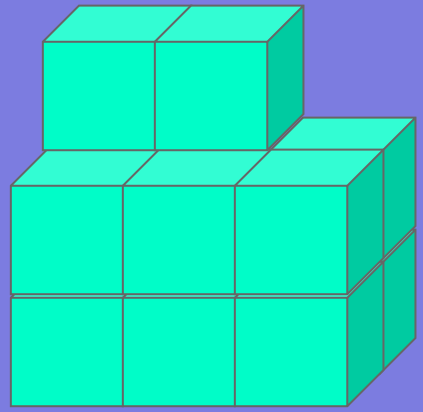
Figures Made of Prisms

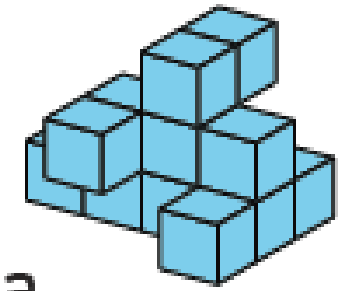
Materials needed: pencil, book

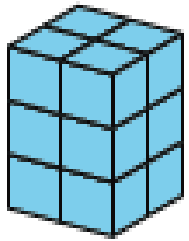
Let's find the volume of figures made of prisms.

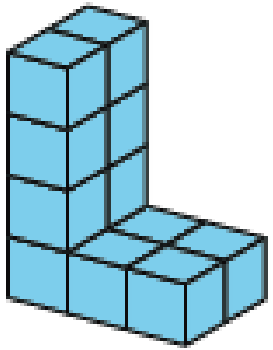


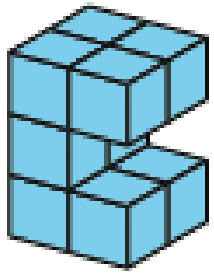
Warm-Up Which One Doesn't Belong: Different Figures

Pick one that doesn't belong. Be ready to share why it doesn't belong.

a 

b. 

c 

d. 

Could we find at least one reason why each one doesn't belong?

Activity 1 Put It Together

We are going to build different rectangular prisms and put them together.

Partner A, build a rectangular prism with 12 cubes.

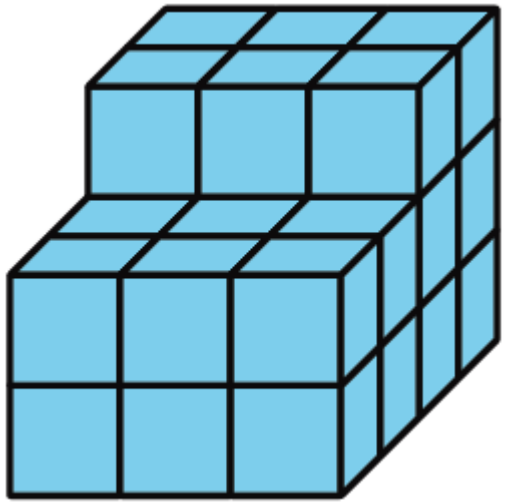
Partner B, build a rectangular prism with 10 cubes.

Activity 1 Synthesis

Let's Share!

What was the volume of the shape you made when you put your two prisms together?

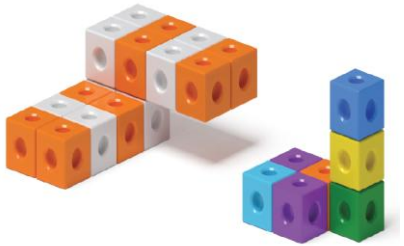
What is the volume of the figure Diego and Jada made? How do you know?



Activity I See Two Prisms

We are going to find the volume of different figures. Explain or show your reasoning.

We will start with individual work time.



Discuss with your partner.

Be sure to show or describe the way you split the prism into smaller figures to find the volume.

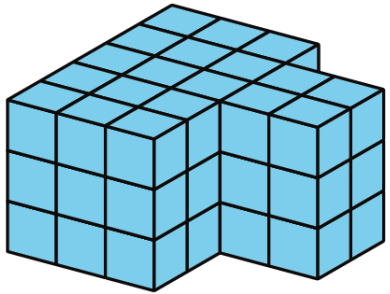
Activity 2 Synthesis

Let's Share!

Who broke the prisms up the same way? Who broke it up differently?

Can you think of other ways you could break up these prisms?

d.



Lesson Synthesis

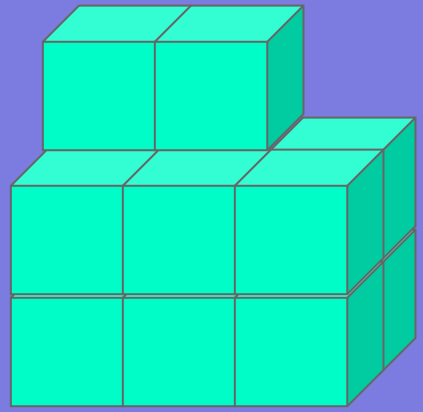
Today we found the volume of shapes built from 2 or more rectangular prisms.

When a shape is built from 2 or more rectangular prisms its volume can be found by adding the volumes of those rectangular prisms.

Where did you use multiplication in your work today?

Where did you use addition?

Let's find the volume of figures made of prisms.



Cool-Down

Volume of a Figure Made of Prisms

Complete the cool-down on by yourself.