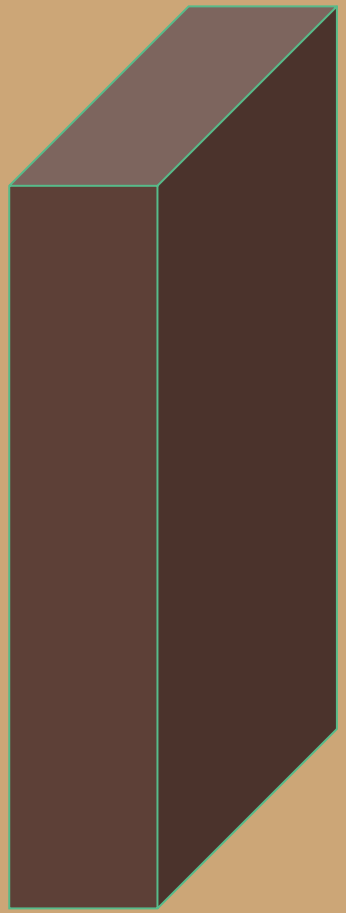
All About That Base

Materials needed; pencil, book, snap cubes

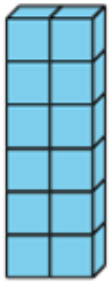
Let’s describe the dimensions of a prism and find the volume.

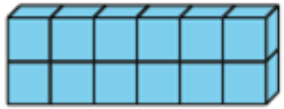


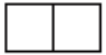
Warm-Up Notice and Wonder: Prism Print

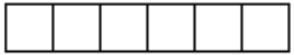
What do you notice? What do you wonder?

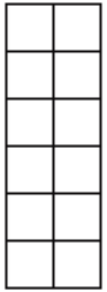
Be prepared to discuss with your partner.







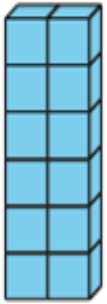


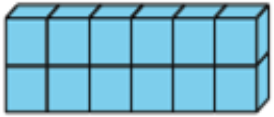


Warm-Up Synthesis

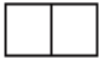
These rectangles show different faces of the prism.

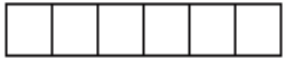
Any face of a prism can be a base.

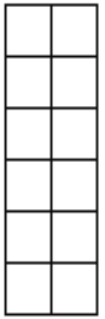




Where do we see each base in the prism?



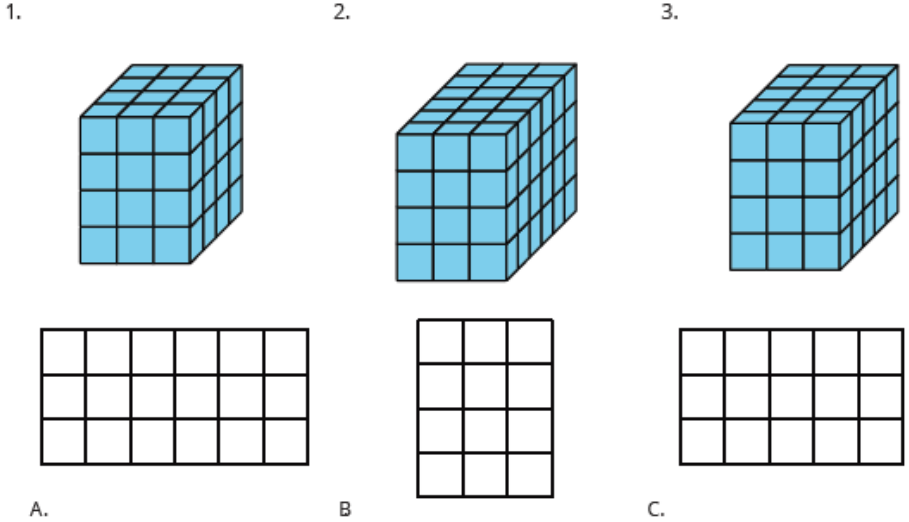




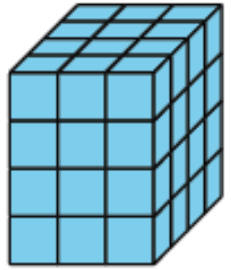
Activity 1 Match the Base

Complete activity 1 in your book.

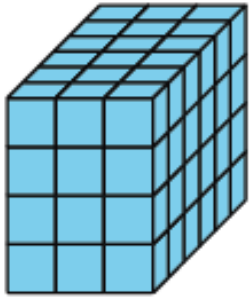
Be prepared to explain your reasoning to a partner.



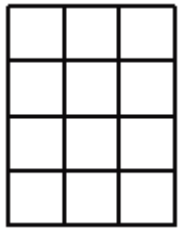
Activity Synthesis Let's Share!



Where do we see this rectangle as a base in each prism?

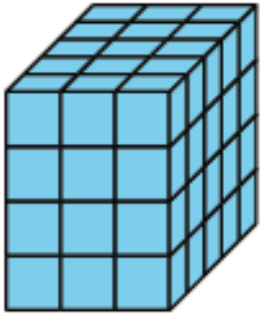


If prism 2 was resting on the 4 by 3 base, how many layers tall would the prism be?



We can use the word **height** to describe how tall a prism is.

If prism 3 was resting on the 4 by 3 base, what would the height of the prism be?

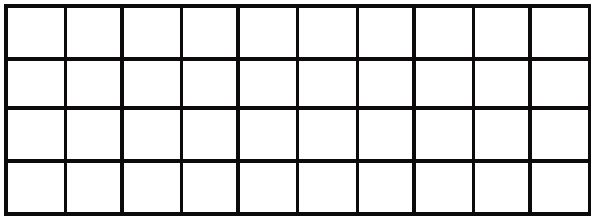


Activity 2 Growing Prism

Complete activity 2 in your book.

You have a few minutes of independent think time before working with a partner.

Here is a base of a rectangular prism. Complete the table for the volumes of rectangular prisms with this base and different heights.



height	multiplication expression to represent the volume	volume
1		
2		
3		

Activity 2 Synthesis Let's Share!

How is the prism changing as you go down the table? How is it staying the same?

40 x 3 Where do we see the 40 in the prism?

Where do we see the 3 in the prism?

Where do we see the expression 3 x 4 x 5 in the prism that is being described in question 2?

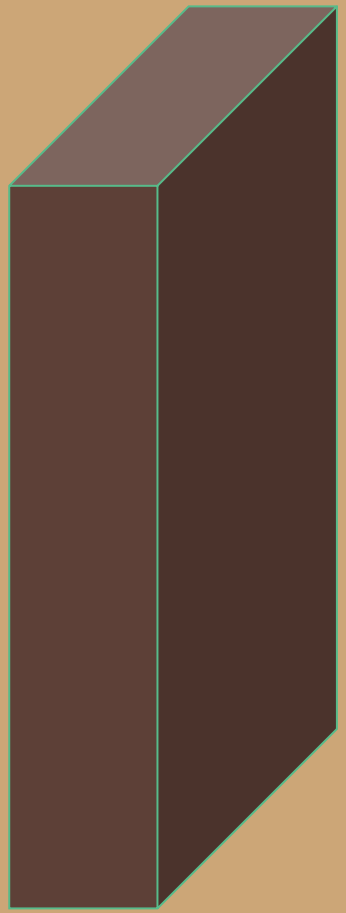
Lesson Synthesis

What information do you need to measure the volume of any rectangular prism?

What language can we add to our poster to explain how to find the volume of a prism when we can't see the cubes?

What is the connection between the number of layers and the height of the prism?

Let’s describe the dimensions of a prism and find the volume.



Cool-Down

Determine the Volume

Complete the cool-down by yourself.