Illustrative Mathematics

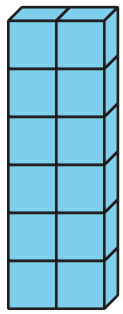
Grade 5 Unit 1
Lesson 5

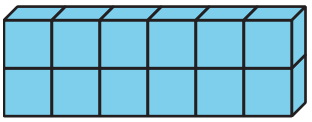
Unit 1 Lesson 5: Side Lengths of Rectangular Prisms

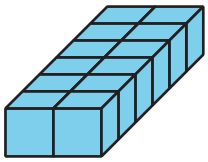
WU Notice and Wonder: Prism Print (Warm up)

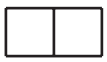
Student Task Statement

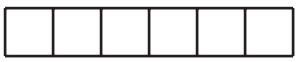
What do you notice? What do you wonder?

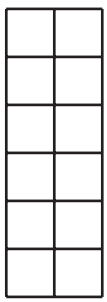










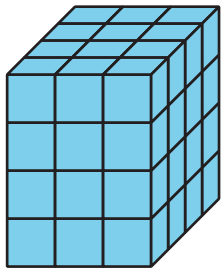


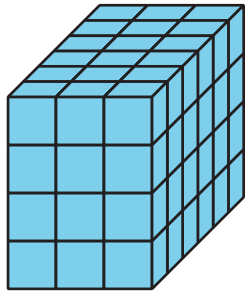
1 All About That Base

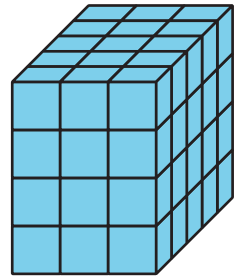
Student Task Statement

Here are 3 rectangular prisms.

1 **2** **3**

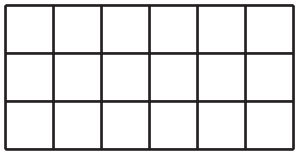




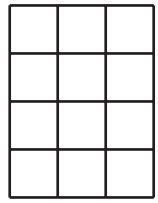


These rectangles represent bases of the prisms.

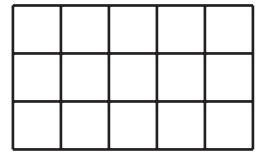
A



B



C

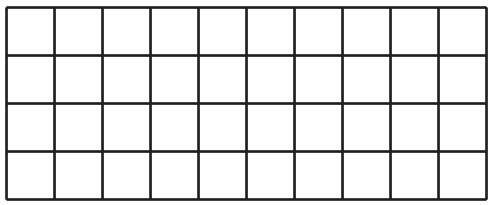


1. Match each prism with a rectangle that represents its base. Note: Some prisms may match more than 1 rectangular base.
2. Find the volume of each prism. Explain or show your reasoning.

2 Growing Prism

Student Task Statement

Here is a base of a rectangular prism.



1. Fill out the table for the volumes of rectangular prisms with this base and different heights.

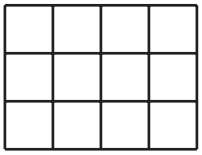
height	multiplication expression to represent the volume	volume
1		
2		
3		

height	multiplication expression to represent the volume	volume
10		
25		

3 What is the Question?

Student Task Statement

This is the base of a rectangular prism that has a height of 5 cubes.



These are answers to questions about the prism. Read each answer and determine what question it is answering about the prism.

1. 3 is the answer. What is the question?
2. 5 is the answer. What is the question?
3. $3 \times 4 = 12$. The answer is 12. What is the question?
4. $12 \times 5 = 60$. The answer is 60 cubes. What is the question?
5. 3 by 4 by 5 is the answer. What is the question?