



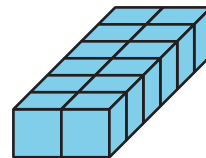
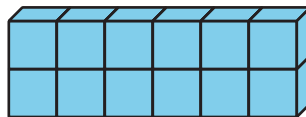
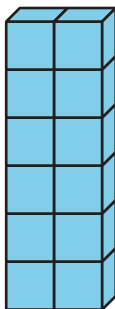
# Side Lengths of Rectangular Prisms

Let's describe the side lengths of a prism and find the volume.

## Warm-up

### Notice and Wonder: Prism Print

What do you notice? What do you wonder?

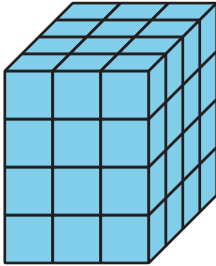


## Activity 1

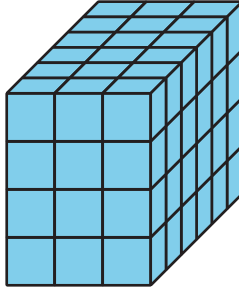
### All about That Base

Here are 3 rectangular prisms.

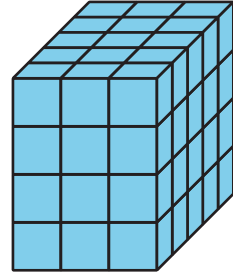
1



2

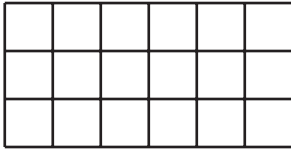


3

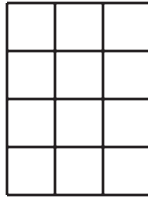


These rectangles represent bases of the prisms.

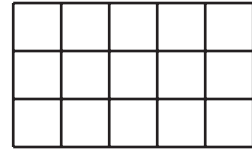
A



B



C

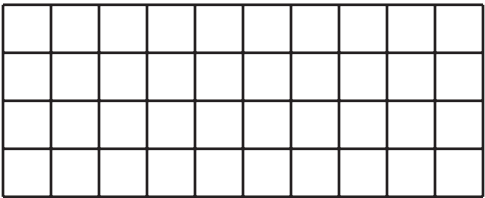


1. Match each prism with a rectangle that represents its base. Some prisms may match more than 1 rectangular base.
2. Find the volume of each prism. Explain or show your reasoning.

Activity 2

Growing Prism

Here is a base of a rectangular prism.



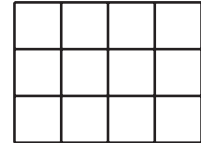
Complete the table for the volumes of rectangular prisms. Use this base and each of these heights.

| height<br>(units) | multiplication expression to represent volume | volume<br>(unit cubes) |
|-------------------|---|------------------------|
| 1                 |   |                        |
| 2                 |   |                        |
| 3                 |   |                        |
| 10                |   |                        |
| 25                |   |                        |

## Activity 3

### What Is the Question?

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



These are answers to questions about the prism. Determine the question for each answer.

1. 3 is the answer. What is the question?

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2. 5 is the answer. What is the question?

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3.  $3 \times 4 = 12$ . The answer is 12. What is the question?

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4.  $12 \times 5 = 60$ . The answer is 60 unit cubes. What is the question?

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5. 3 units by 4 units by 5 units is the answer. What is the question?

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