Layers, Layers, and More Layers

Materials needed: pencil and number cubes

Let's find value of each expression mentally

Warm-Up Number Talk: Multiplication

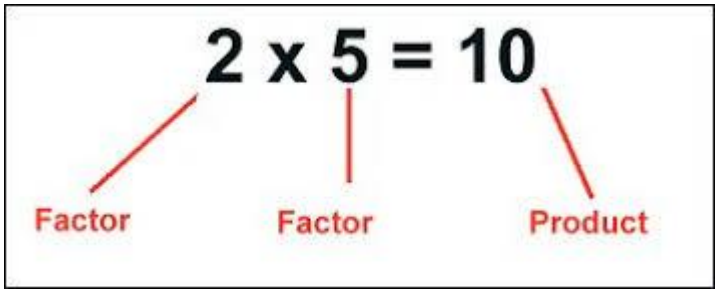
- 6×4
- $3 \times 2 \times 5$

- $3 \times 2 \times 4$
- $3 \times 2 \times 6$

Activity Synthesis

How did changing one of the factors impact the product?

How are problems 2-4 like the work we did with prisms yesterday?



Activity 1 Build Rectangular Prisms

The prisms on the cards are completely packed with unit cubes.

1. Pick a card.

2. Build the rectangular prism.

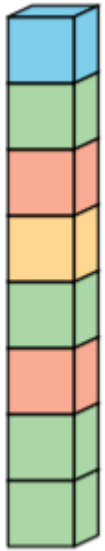
3. Find the volume. Explain how you found the volume to your partner.

4. Repeat.

Activity Synthesis

How did you build this rectangular prism?

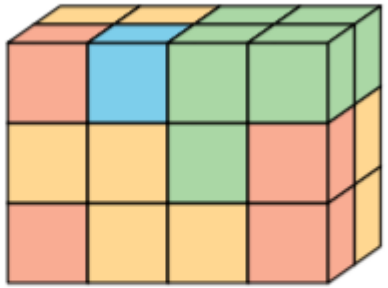
What is the volume of this rectangular prism? How do you know?



E.

Activity Synthesis

How did you build this rectangular prism?

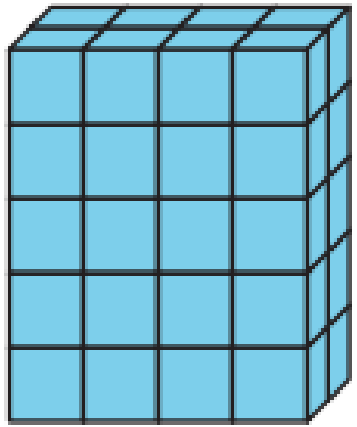


What is the volume of this rectangular prism? How do you know?

A.

Activity 2 Practice Finding Volume

How would you describe this prism?

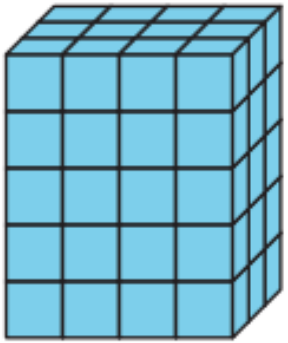


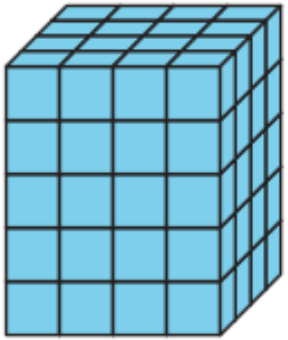
What is the volume of this prism?
How do you know?

Activity 2 Practice Finding Volume

Determine the volume of each prism.

Show or explain your reasoning.

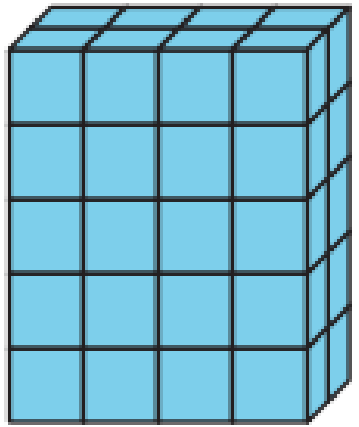




Activity Synthesis

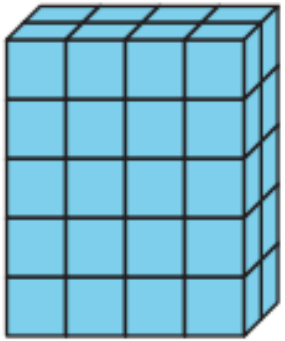
How did you find the volume of the prisms?

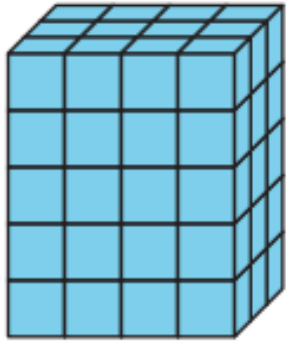
Where do you see 5 groups of 8 cubes in this prism?

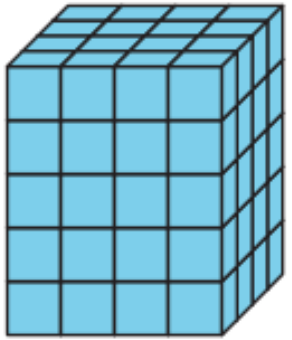


Activity Synthesis

What do these rectangular prisms have in common?







Lesson Synthesis

What do you know about finding the volume of a prism made of cubes after today's activities?

Is there anything you have questions about?

Cool-Down

Jada's Prism

Complete the cool-down by yourself.