Name: _____ Date: _____

MathByExample

Geometry/Volume

Packing Unit Cubes (Part 1)

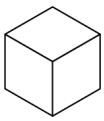
CCSS 5.MD.C.5.A

SET ONE

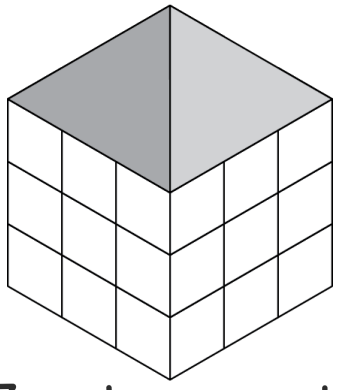
1. Study Hailey's correct work.

Name: Hailey

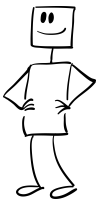
Find the volume of the box by packing it with unit cubes.



= 1 cubic unit



27 cubic units

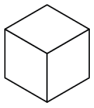


2. Answer the question.

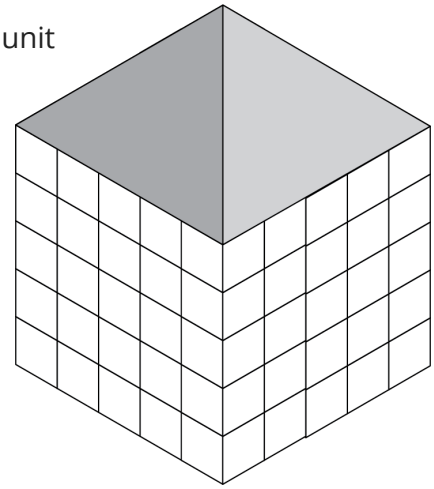
How do you know it takes 27 unit cubes to fill the box?

3. Then complete this one.

Find the volume of the box by packing it with unit cubes.



= 1 cubic unit



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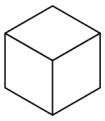
Packing Unit Cubes (Part 1), continued

SET TWO

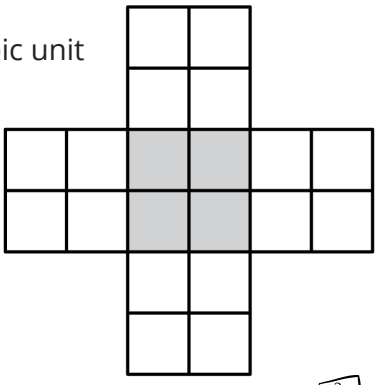
1. Study Hiro's incorrect work.

Name: Hiro

Imagine this net were folded into a box. Find the volume of the box by packing it with unit cubes. Explain your reasoning.



= 1 cubic unit



Explanation:

There are 20 faces, so the volume is 20 cubic units.

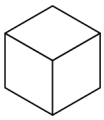
2. Answer these questions.

- The area of the base is 4 square units. How do you know this?

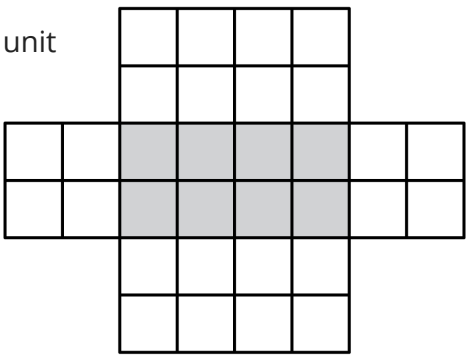
- How could Hiro have used the area of the base to conclude that the correct volume is 8 cubic units?

3. Then complete this one.

Imagine this net were folded into a box. Find the volume of the box by packing it with unit cubes. Explain your reasoning.



= 1 cubic unit



Explanation:

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