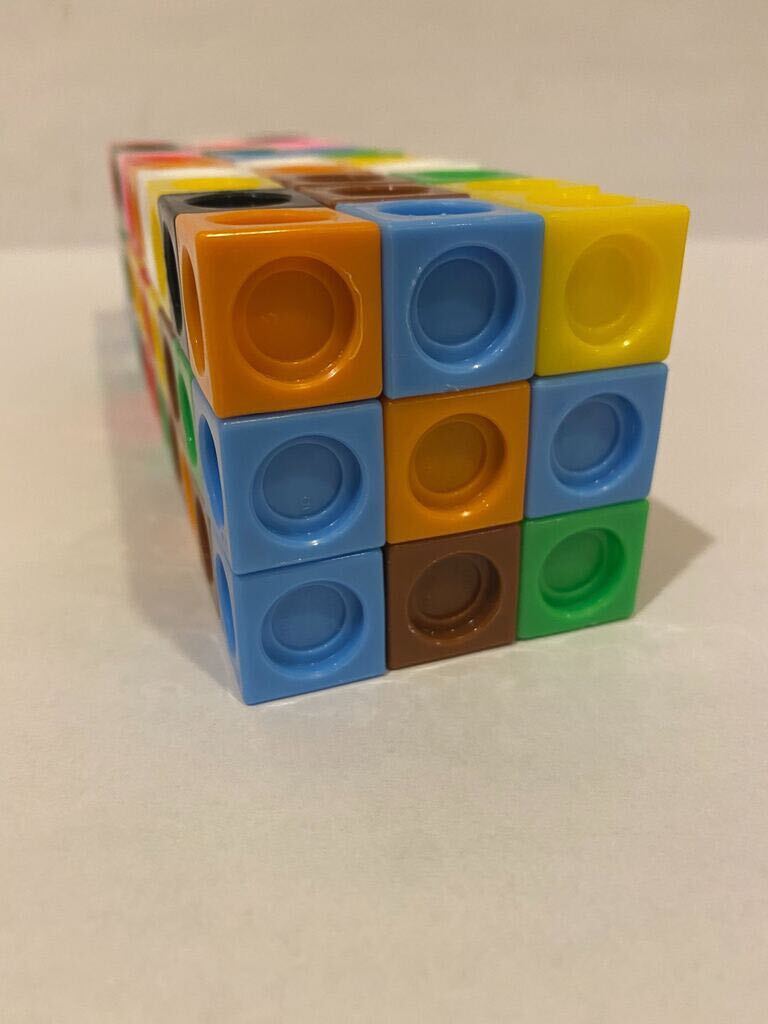
## Unit 1 Lesson 4: Use Layers to Determine Volume

### WU Estimation Exploration: How Many Cubes? (Warm up)

#### Student Task Statement

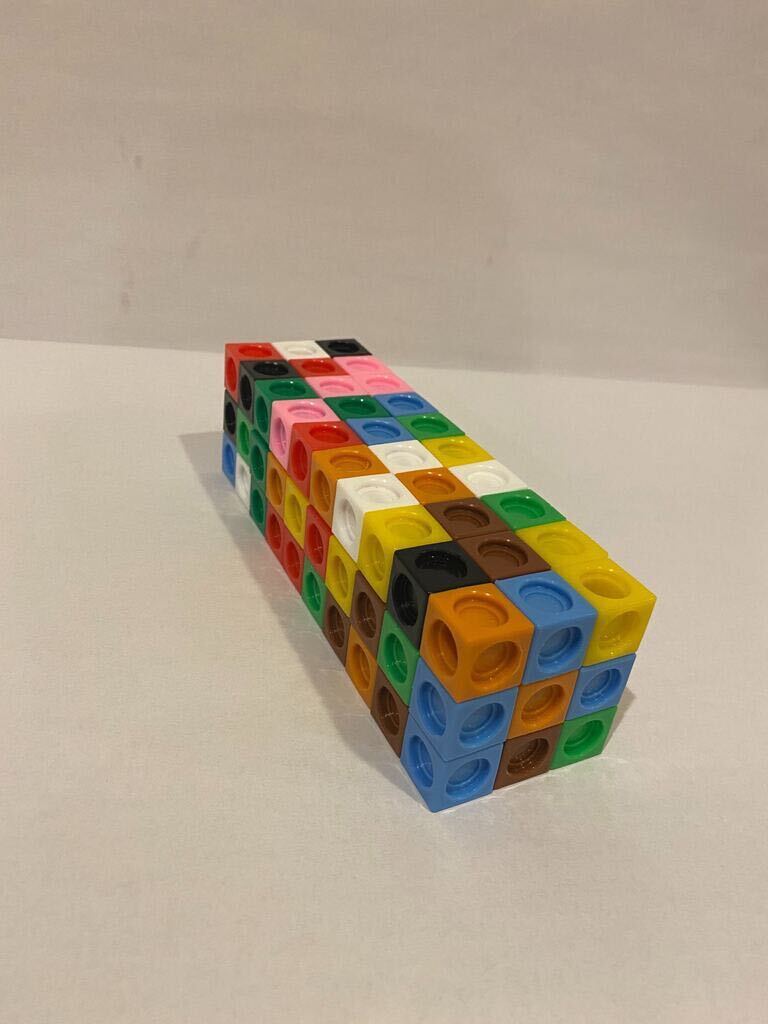


About how many cubes were used to build this prism?

Record an estimate that is:

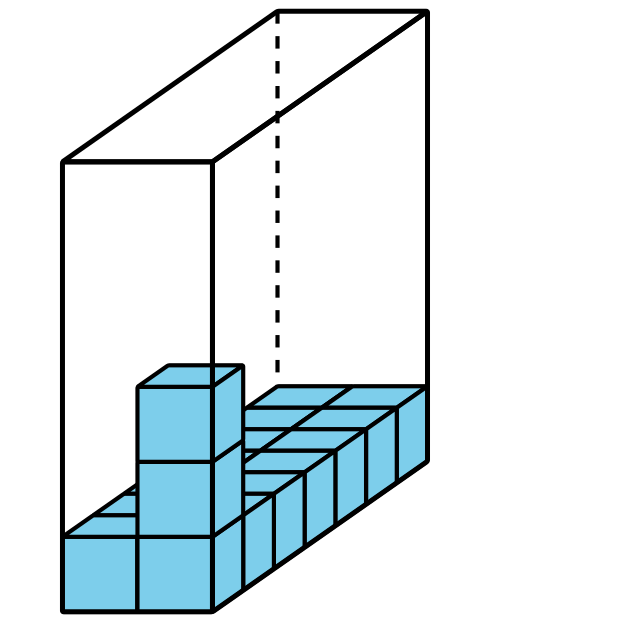
|  |  |  |
| --- | --- | --- |
| too low | about right | too high |
|  |  |  |

#### Activity Synthesis



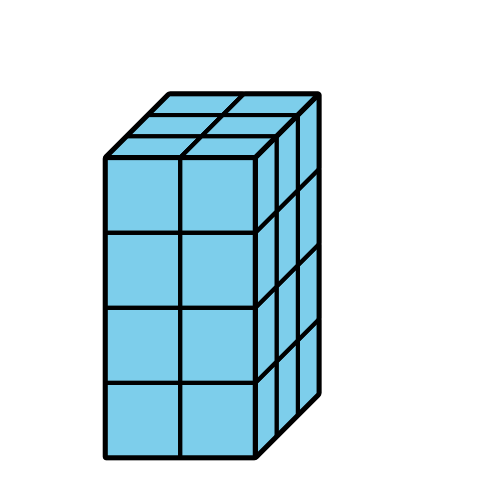
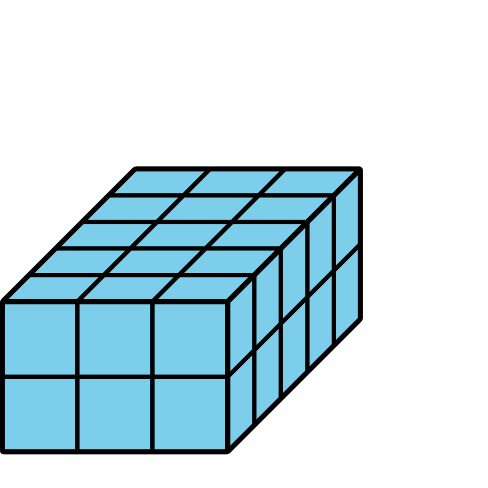
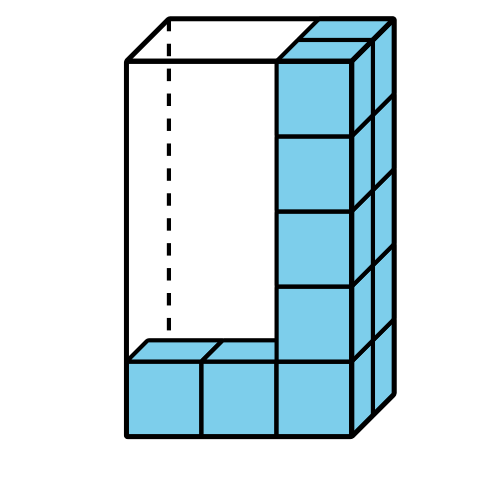
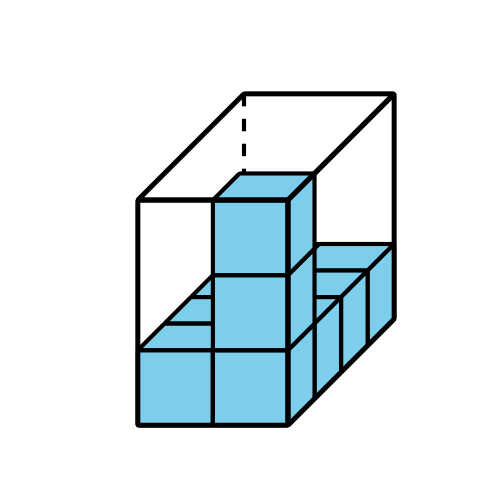
### 1 Layers in Rectangular Prisms

#### Student Task Statement

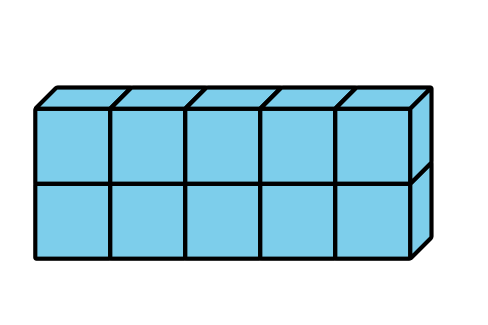
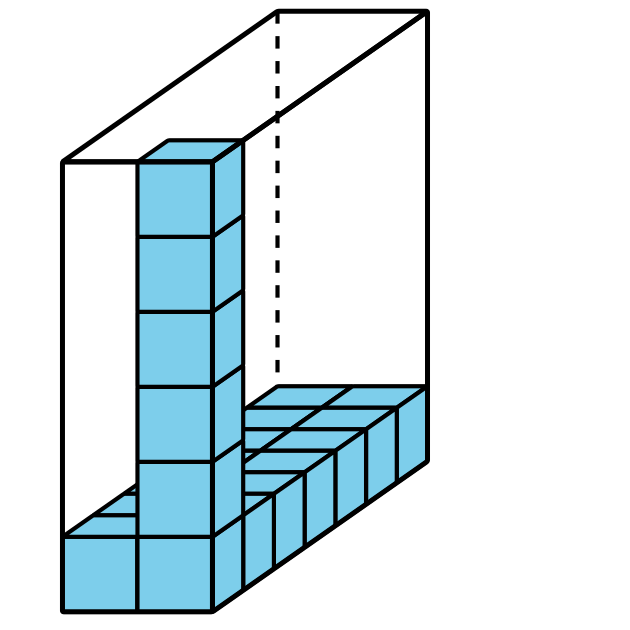


1. Complete the table. Be prepared to explain your reasoning.

| * prism | * number of cubes in one layer | * number of layers | * volume |
| --- | --- | --- | --- |
| * A |  |  |  |
| * B |  |  |  |
| * C |  |  |  |
| * D |  |  |  |

* Prism A
* Prism B
* Prism C
* Prism D

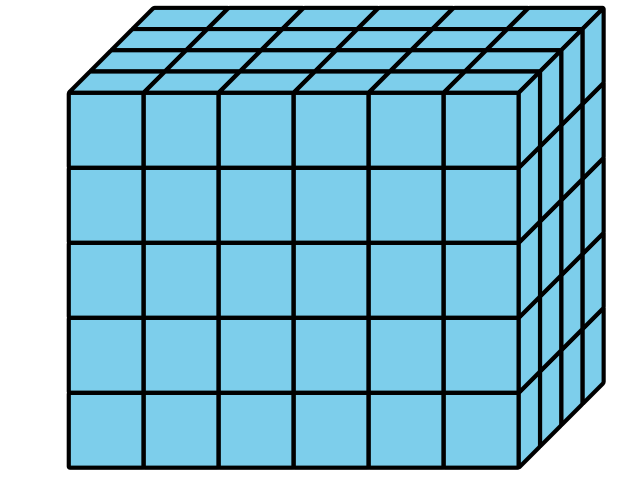
1. Find the volume of each prism. Explain or show your reasoning.

* Prism E
* Prism F

1. How can you find the volume of any rectangular prism?

### 2 Finding Volume in Different Ways

#### Student Task Statement



1. Explain or show how the expression represents the volume of this rectangular prism.
2. Explain or show how the expression represents the volume of this rectangular prism.
3. Find a different way to calculate the volume of this rectangular prism. Explain or show your thinking.
4. Write an expression to represent the way you calculated the volume.



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