

## Build Three-Dimensional Shapes

Name \_\_\_\_\_

**Learning Target:** Build three-dimensional figures and find the numbers of unit cubes in three-dimensional figures.

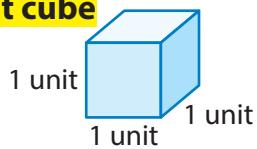
### Success Criteria:

- I can build a three-dimensional figure using unit cubes.
- I can find the number of unit cubes in a three-dimensional figure.

## Explore and Grow

Just like any three-dimensional figure, a **unit cube** has length, width, and height. You can build three-dimensional figures using unit cubes.

### unit cube



Use unit cubes to build each three-dimensional figure.

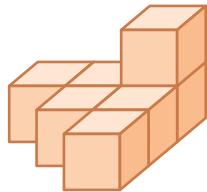


Figure 1

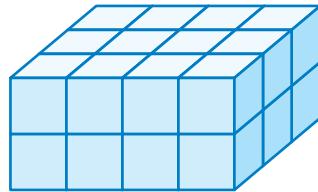


Figure 2

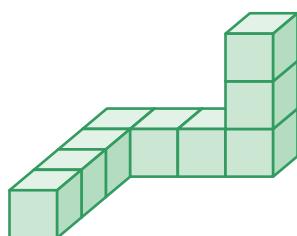
Be sure to include any hidden unit cubes.



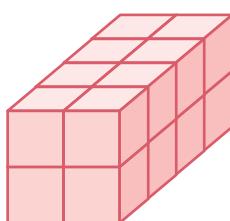
How many unit cubes make up each figure? Describe how you found your answers.



**Precision** Find the number of unit cubes that make up each figure. Explain your reasoning.



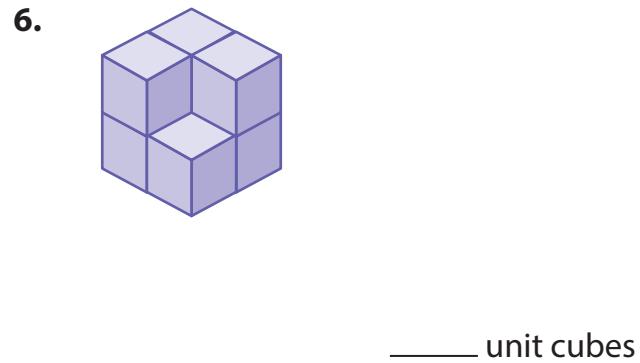
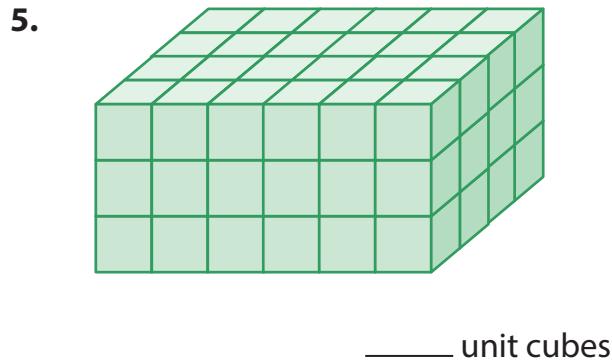
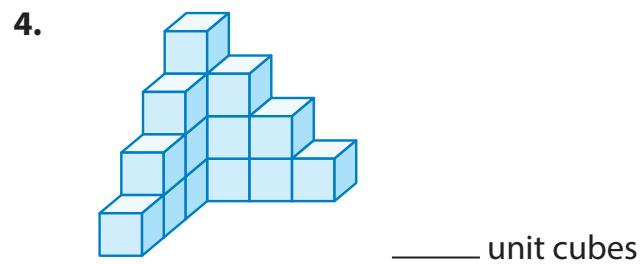
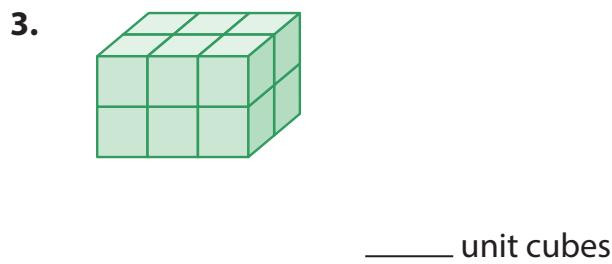
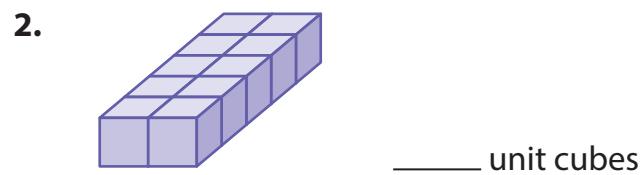
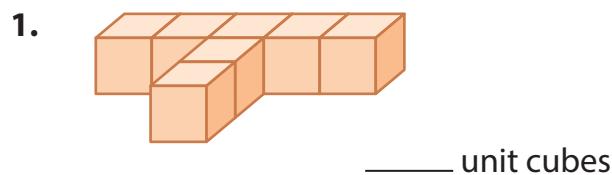
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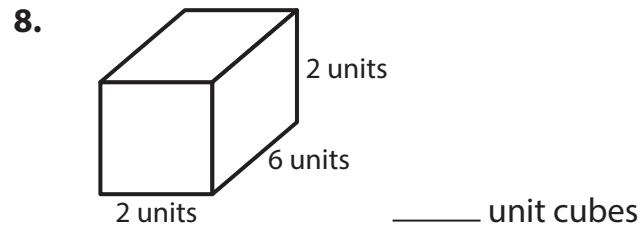
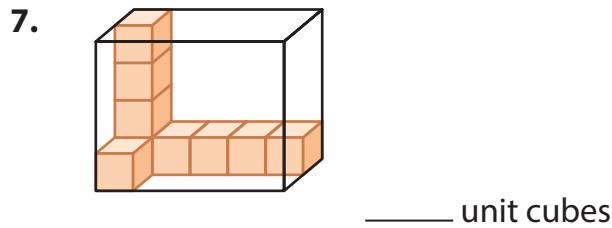
# Practice

Name \_\_\_\_\_

Find the number of unit cubes that make up each figure.



**DIG DEEPER!** Find the number of unit cubes it takes to pack one half of the prism.



9. **MP Reasoning** You add another layer of unit cubes on top of the prism in Exercise 5. How many unit cubes make up the new prism?

10. **Open-Ended** You have 12 unit cubes. Describe four different rectangular prisms you can build using all of the unit cubes.