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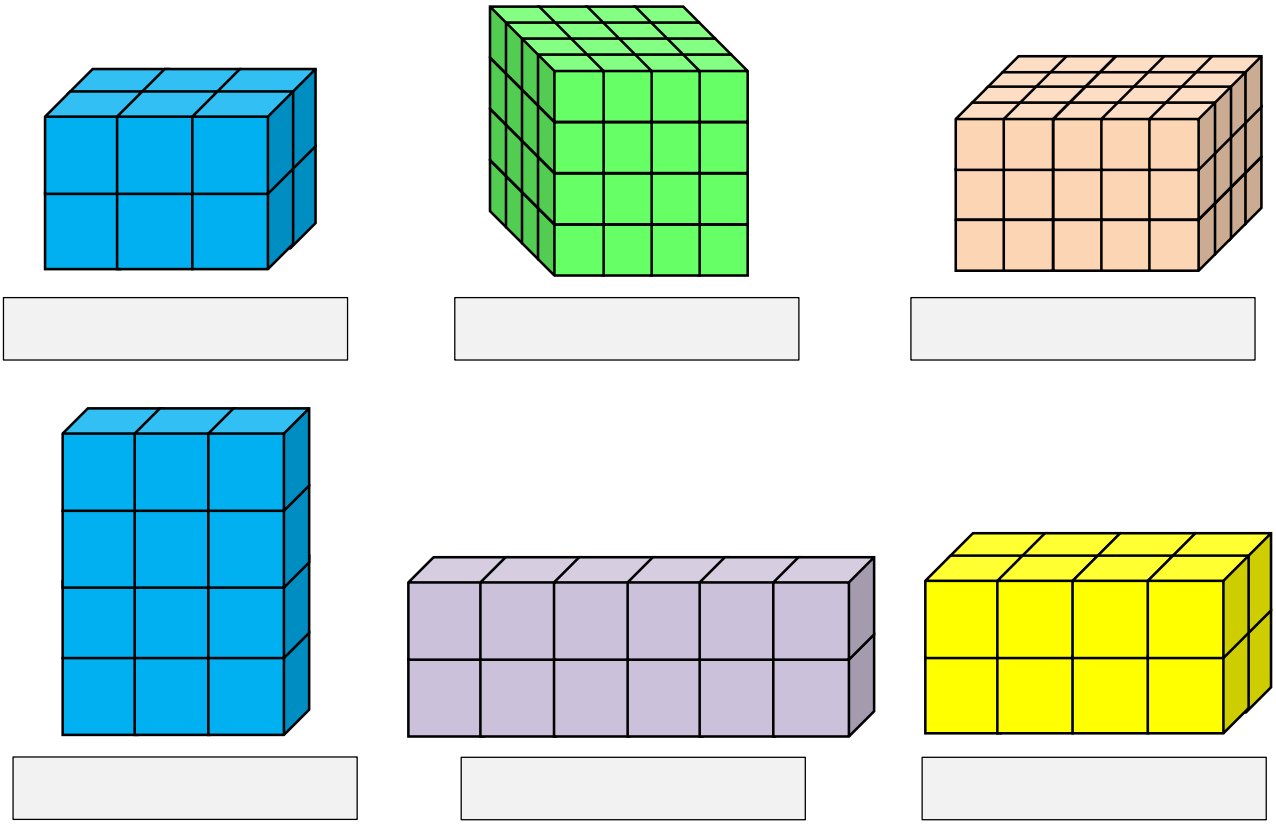
5.MD.C.3 Solving the Volume of 3D Shapes

5.MD.C.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.

Count the cubes and write the volume of each shape in cubic units.



Solve the word problems below.

The volume of a brick wall is 35 cubic units. There are 5 layers. How many cubes are in each layer?

Answer:

A prism was made by piling up layers of cubic units. Each layer of the prism is 7 cubic units. The volume is 63 cubic units. How many layers are in the prism?

Answer:

Stephanie arranged her toy blocks inside an old shoe box. There are 3 layers. Each layer has 6 rows of 5 blocks. What is the volume of the box?

Answer:

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Answer Key

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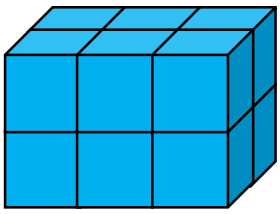
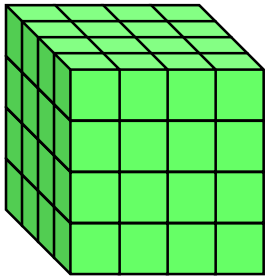
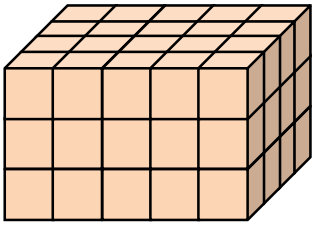
Count the cubes and write the volume of each shape in cubic units.



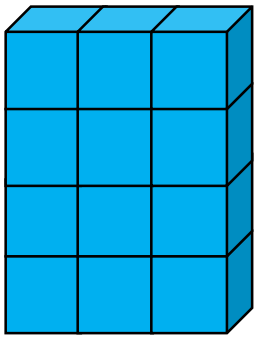
12 cubic units



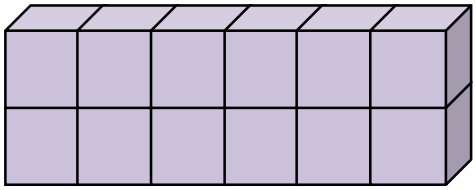
64 cubic units



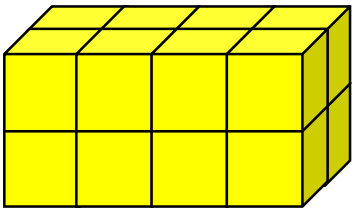
60 cubic units



12 cubic units



12 cubic units



16 cubic units

Solve the word problems below.

The volume of a brick wall is 35 cubic units. There are 5 layers. How many cubes are in each layer?

Answer: 7 cubes

A prism was made by piling up layers of cubic units. Each layer of the prism is 7 cubic units. The volume is 63 cubic units. How many layers are in the prism?

Answer: 9 layers

Stephanie arranged her toy blocks inside an old shoe box. There are 3 layers. Each layer has 6 rows of 5 blocks. What is the volume of the box?

Answer: 90 cubic units