

**Lesson 10-1: Model Volume
Solve and Share**

Content Standard: 5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4

I Can Statement: I can find the volume of solid figures.

Gina is building a rectangular prism out of sugar cubes for her art project. She started by drawing a diagram of the rectangular prism that is 4 cubes high and 4 cubes long. How many cubes does she use to make the prism?

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**Lesson 10-2: Develop a Volume Formula
Solve and Share**

Content Standard: 5.MD.C.3a, 5.MD.C.3b, 5.MD.C.4

I Can Statement: I can find the volume of rectangular prisms using a formula.

Kevin needs a new aquarium for his fish. The pet store has a fish tank in the shape of a rectangular prism that measures 5 feet long by 2 feet wide by 4 feet high. Kevin needs a fish tank that has a volume of at least 35 cubic feet. Will this fish tank be big enough?

**Lesson 10-2: Develop a Volume Formula
Solve and Share**

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Lesson 10-3: Volume of Prisms Solve and Share

Content Standard: 5.MD.C.3a, 5.MD.C.3b

I Can Statement: I can find the volume of prisms in different ways.

Rachel built a rectangular prism that has a volume of 24 cubic inches. What are five possible length, width, and height dimensions for her prism?

Length (l)	Width (w)	Height (h)	Volume (in ³)
			24
			24
			24
			24
			24

Lesson 10-3: Volume of Prisms Solve and Share

Content Standard: 5.MD.C.3a, 5.MD.C.3b

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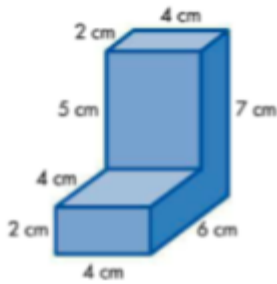
Length (l)	Width (w)	Height (h)	Volume (in ³)
			24
			24
			24
			24
			24

Lesson 10-4: Combine Volumes of Prisms Solve and Share

Content Standard: 5.MD.C.5c

I Can Statement: I can find the volume of a solid figure that is the combination of two or more rectangular prisms.

Ariel is thinking of a three-dimensional figure that is made by combining two rectangular prisms. What is the volume of this three-dimensional figure?

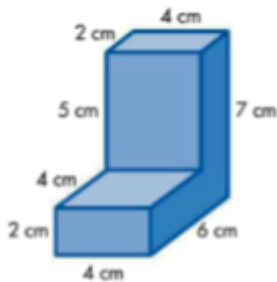


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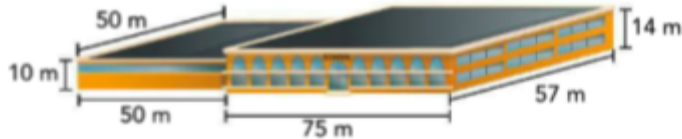


Lesson 10-5: Solve Word Problems Using Volume Solve and Share

Content Standard: 5.MD.C.5c

I Can Statement: I can solve word problems involving volume.

A school has two wings, each of which is a rectangular prism. The school district is planning to install air conditioning in the school and needs to know its volume. What is the volume of the school?



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