



# Formulas for Volume

**TAKS Objective 4**  
**TEKS 5.10B, 5.10C, 5.14A**
**Solve.**

1. What is different about the formula to find the volume of a cube and the formula to find the volume of a rectangular prism?

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3. Nate installs 324 square feet of carpet in a house. The room is 18 feet long and 9 feet high. What is the volume of the room?

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5. A cube has 10 cm edges. How much wrapping paper is needed to completely cover the cube?

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2. What is similar about the formulas to find the volume of a cube and a rectangular prism?

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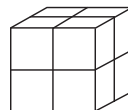
4. Students determined the area of their classroom to be about 50 square meters. Determine the length and the volume of the room if it is 5 meters wide and 3 meters high.

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6. Todd built the cube below out of smaller cubes and painted the outside of it red. After the paint dried, he broke the cube apart into the original 8 smaller cubes. How many faces of the smaller cubes are NOT painted red?




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