

Volume of Composite Figures

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5th Grade Math Practice

Name: _____

Date: _____

Solve each problem. Show your work when needed.

1. Calculate the volume of a rectangular prism with length 4 cm, width 3 cm, and height 5 cm. $V = \underline{\hspace{2cm}}$

2. Find the volume of a rectangular prism with length 10 m, width 2 m, and height 3 m. $V = \underline{\hspace{2cm}}$

3. A box is made of two rectangular prisms. One has a volume of 30 cm^3 and the other 20 cm^3 . What is the total volume of the box?

4. A toy block is a composite of two prisms. The first has dimensions 2 cm x 3 cm x 4 cm and the second 3 cm x 3 cm x 2 cm. What is their combined volume?

5. What is the volume of a rectangular prism with length 6 ft, width 4 ft, and height 3 ft? $V = \underline{\hspace{2cm}}$

6. Circle the greater volume: 24 cm^3 or 42 cm^3

7. What is the missing volume? A prism has a volume of 45 cm^3 . If you add another prism with volume 25 cm^3 , the total volume will be $\underline{\hspace{2cm}}$

8. The volume of a prism can be calculated using the formula $V = \text{length} \times \text{width} \times \text{height}$. True or False?

True False

9. If a rectangular prism has a volume of 100 m^3 and a height of 5 m, what is the base area? Base Area = $\underline{\hspace{2cm}}$

10. A garden shed is composed of two rectangular prisms. One is 8 ft long, 4 ft wide, and 6 ft tall, and the other is 6 ft long, 4 ft wide, and 3 ft tall. What is the total volume?

11. Lisa built a toy structure with two prisms. One has a volume of 15 cm^3 and the other 25 cm^3 . What is the combined volume of the structure?

12. Calculate the volume of a rectangular prism with length 7 in, width 3 in, and height 2 in. $V = \underline{\hspace{2cm}}$

