Name: _____

Volume Formula Word Problems

Solve each problem. Use V = l × w × h or V = B × h.

1. A box is 9 cm long, 5 cm wide, and 6 cm tall. What is its volume?

Answer: _____

2. The base of a rectangular prism has an area of 18 square in. The prism is 5 in tall. What is its volume?

Answer: _____

3. Each storage bin is 5 m by 9 m by 2 m. What is the total volume of 4 bins?

Answer: _____

4. A fish tank has a volume of 448 cubic ft. It is 8 ft long and 7 ft wide. How tall is it?

Answer: _____

5. A fish tank has a volume of 60 cubic in. It is 2 in long and 3 in wide. How tall is it?

Answer: _____

6. A fish tank has a volume of 240 cubic in. It is 12 in long and 4 in wide. How tall is it?

Answer: _____

7. Each storage bin is 6 ft by 2 ft by 9 ft. What is the total volume of 5 bins?

Answer: _____

8. A box is 5 m long, 4 m wide, and 3 m tall. What is its volume?

Answer: _____

9. Each storage bin is 8 cm by 2 cm by 2 cm. What is the total volume of 4 bins?

Answer: _____

10. A box is 9 in long, 8 in wide, and 8 in tall. What is its volume?

Answer: _____

11. The base of a rectangular prism has an area of 9 square in. The prism is 5 in tall. What is its volume?

Answer: _____

12. The base of a rectangular prism has an area of 45 square cm. The prism is 10 cm tall. What is its volume?

Answer: _____

Name: **ANSWER KEY**

Volume Formula Word Problems

Solve each problem. Use V = l × w × h or V = B × h.

1. A box is 9 cm long, 5 cm wide, and 6 cm tall. What is its volume?

Answer: 270 cubic cm

2. The base of a rectangular prism has an area of 18 square in. The prism is 5 in tall. What is its volume?

Answer: 90 cubic in

3. Each storage bin is 5 m by 9 m by 2 m. What is the total volume of 4 bins?

Answer: 360 cubic m

4. A fish tank has a volume of 448 cubic ft. It is 8 ft long and 7 ft wide. How tall is it?

Answer: 8 ft

5. A fish tank has a volume of 60 cubic in. It is 2 in long and 3 in wide. How tall is it?

Answer: 10 in

6. A fish tank has a volume of 240 cubic in. It is 12 in long and 4 in wide. How tall is it?

Answer: 5 in

7. Each storage bin is 6 ft by 2 ft by 9 ft. What is the total volume of 5 bins?

Answer: 540 cubic ft

8. A box is 5 m long, 4 m wide, and 3 m tall. What is its volume?

Answer: 60 cubic m

9. Each storage bin is 8 cm by 2 cm by 2 cm. What is the total volume of 4 bins?

Answer: 128 cubic cm

10. A box is 9 in long, 8 in wide, and 8 in tall. What is its volume?

Answer: 576 cubic in

11. The base of a rectangular prism has an area of 9 square in. The prism is 5 in tall. What is its volume?

Answer: 45 cubic in

12. The base of a rectangular prism has an area of 45 square cm. The prism is 10 cm tall. What is its volume?

Answer: 450 cubic cm