Volume of Rectangular Prisms

Grade 5 · 5.MD.5

Name: _____ Date: _____

Work out the volume, or the missing measurement, for each container.

1. A planter measures 9 cm long, 4 cm wide and 8 cm high. What is its volume?
   Answer: _____

2. A toy chest measures 3 cm long, 8 cm wide and 2 cm high. What is its volume?
   Answer: _____

3. One shipping crate is 11×4×3 m and another is 3×3×5 m. Which holds more, the first or the second?
   Answer: _____

4. A box measures 5 cm long, 7 cm wide and 9 cm high. What is its volume?
   Answer: _____

5. A shipping crate has a volume of 90 cubic m. Its base is 2 m by 5 m. How tall is it?
   Answer: _____

6. One fish tank is 12×3×9 cm and another is 7×4×8 cm. Which holds more, the first or the second?
   Answer: _____

7. A fish tank measures 12 cm long, 10 cm wide and 8 cm high. What is its volume?
   Answer: _____

8. One fish tank is 9×3×2 cm and another is 5×4×5 cm. Which holds more, the first or the second?
   Answer: _____

9. A shipping crate measures 6 m long, 2 m wide and 7 m high. What is its volume?
   Answer: _____

10. A toy chest measures 12 cm long, 2 cm wide and 9 cm high. What is its volume?
    Answer: _____

11. A storage unit has a volume of 264 cubic m. Its base is 11 m by 8 m. How tall is it?
    Answer: _____

12. One storage unit is 11×4×7 m and another is 5×8×2 m. Which holds more, the first or the second?
    Answer: _____

Volume of Rectangular Prisms — Answer Key

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Volume = length × width × height. To find a missing side, divide the volume by the other two.

1. A planter measures 9 cm long, 4 cm wide and 8 cm high. What is its volume?
   Answer: 288 cubic cm

2. A toy chest measures 3 cm long, 8 cm wide and 2 cm high. What is its volume?
   Answer: 48 cubic cm

3. One shipping crate is 11×4×3 m and another is 3×3×5 m. Which holds more, the first or the second?
   Answer: first

4. A box measures 5 cm long, 7 cm wide and 9 cm high. What is its volume?
   Answer: 315 cubic cm

5. A shipping crate has a volume of 90 cubic m. Its base is 2 m by 5 m. How tall is it?
   Answer: 9 m

6. One fish tank is 12×3×9 cm and another is 7×4×8 cm. Which holds more, the first or the second?
   Answer: first

7. A fish tank measures 12 cm long, 10 cm wide and 8 cm high. What is its volume?
   Answer: 960 cubic cm

8. One fish tank is 9×3×2 cm and another is 5×4×5 cm. Which holds more, the first or the second?
   Answer: second

9. A shipping crate measures 6 m long, 2 m wide and 7 m high. What is its volume?
   Answer: 84 cubic m

10. A toy chest measures 12 cm long, 2 cm wide and 9 cm high. What is its volume?
    Answer: 216 cubic cm

11. A storage unit has a volume of 264 cubic m. Its base is 11 m by 8 m. How tall is it?
    Answer: 3 m

12. One storage unit is 11×4×7 m and another is 5×8×2 m. Which holds more, the first or the second?
    Answer: first