Volume of boxes worksheet

5th grade math · Measurement & Data · 5.MD.C.5

Name _____ Date _____

For grown-ups: 12 volume of boxes problems, easier ones first. Let your child try each one alone, then check together with the answer key on page 2.

1. **A box is 3 ft long, 3 ft wide and 4 ft tall. What is its volume?**

   Answer: _____ cu ft

2. **A box is 2 cm long, 2 cm wide and 4 cm tall. What is its volume?**

   Answer: _____ cu cm

3. **A box is 2 ft long, 3 ft wide and 3 ft tall. What is its volume?**

   Answer: _____ cu ft

4. **A box is 4 cm long, 4 cm wide and 4 cm tall. What is its volume?**

   Answer: _____ cu cm

5. **A box is 6 ft long, 7 ft wide and 5 ft tall. What is its volume?**

   Answer: _____ cu ft

6. **A box is 4 m long, 9 m wide and 3 m tall. What is its volume?**

   Answer: _____ cu m

7. **A box is 5 cm long, 8 cm wide and 9 cm tall. What is its volume?**

   Answer: _____ cu cm

8. **A box is 5 cm long, 4 cm wide and 9 cm tall. What is its volume?**

   Answer: _____ cu cm

9. **A box has volume 240 cubic in. Its base is 6 in by 8 in. How tall is it?**

   Answer: _____ in

10. **A box is 8 ft long, 5 ft wide and 8 ft tall. What is its volume?**

    Answer: _____ cu ft

11. **A box is 2 cm long, 4 cm wide and 9 cm tall. What is its volume?**

    Answer: _____ cu cm

12. **A box is 8 m long, 5 m wide and 2 m tall. What is its volume?**

    Answer: _____ cu m

Answer key: Volume of boxes

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1. **36 cu ft**
   Volume = length × width × height = 3 × 3 × 4 = 36 cubic ft.
2. **16 cu cm**
   Volume = length × width × height = 2 × 2 × 4 = 16 cubic cm.
3. **18 cu ft**
   Volume = length × width × height = 2 × 3 × 3 = 18 cubic ft.
4. **64 cu cm**
   Volume = length × width × height = 4 × 4 × 4 = 64 cubic cm.
5. **210 cu ft**
   Volume = length × width × height = 6 × 7 × 5 = 210 cubic ft.
6. **108 cu m**
   Volume = length × width × height = 4 × 9 × 3 = 108 cubic m.
7. **360 cu cm**
   Volume = length × width × height = 5 × 8 × 9 = 360 cubic cm.
8. **180 cu cm**
   Volume = length × width × height = 5 × 4 × 9 = 180 cubic cm.
9. **5 in**
   Volume = l × w × h. 6 × 8 = 48. 240 ÷ 48 = 5 in.
10. **320 cu ft**
    Volume = length × width × height = 8 × 5 × 8 = 320 cubic ft.
11. **72 cu cm**
    Volume = length × width × height = 2 × 4 × 9 = 72 cubic cm.
12. **80 cu m**
    Volume = length × width × height = 8 × 5 × 2 = 80 cubic m.