



Name: _____

Date: _____

1. What is the volume of a box $9 \times 10 \times 8$?

666

720

646

831

2. A cube has side 4. Its volume is ____ cubic units.

3. A box has volume 27 cubic cm and a base of 3×3 . What is its height? ____

4. A box is filled with unit cubes: 35 cubes per layer, 6 layers. What is the total volume?

214

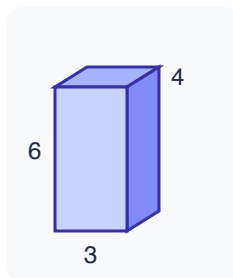
215

207

210



5. What is the volume of this box? (Use the labeled dimensions.)



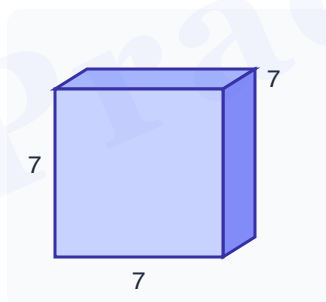
73

87

72

55

6. What is the volume of this cube (side 7)?



7. What is the volume of a box $3 \times 11 \times 10$?

309

249

330

393

8. A cube has side 5. Its volume is ____ cubic units.



9. A box has volume 140 cubic cm and a base of 5×4 . What is its height? ____

10. A box is filled with unit cubes: 64 cubes per layer, 3 layers. What is the total volume?

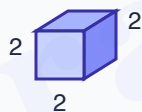
192

185

194

200

11. What is the volume of this cube (side 2)?



12. What is the volume of a box $2 \times 9 \times 7$?

101

126

95

143

13. A cube has side 2. Its volume is ____ cubic units.



14. A box has volume 320 cubic cm and a base of 5×8 . What is its height? ____

15. A box is filled with unit cubes: 12 cubes per layer, 6 layers. What is the total volume?

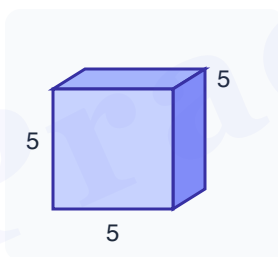
67

72

64

80

16. What is the volume of this cube (side 5)?



17. What is the volume of a box $8 \times 9 \times 8$?

483

471

467

576

18. A cube has side 8. Its volume is ____ cubic units.



Answer Key

1. **720** Volume = $9 \times 10 \times 8 = 720$ cubic units.

2. **64** Volume of a cube = $4^3 = 64$.

3. **3** Height = $27 \div (3 \times 3) = 27 \div 9 = 3$.

4. **210** $35 \times 6 = 210$ cubic units.

5. **72** $V = 3 \times 4 \times 6 = 72$ cubic units.

6. **343** $V = 7^3 = 343$.

7. **330** Volume = $3 \times 11 \times 10 = 330$ cubic units.

8. **125** Volume of a cube = $5^3 = 125$.

9. **7** Height = $140 \div (5 \times 4) = 140 \div 20 = 7$.

10. **192** $64 \times 3 = 192$ cubic units.

11. **8** $V = 2^3 = 8$.

12. **126** Volume = $2 \times 9 \times 7 = 126$ cubic units.

13. **8** Volume of a cube = $2^3 = 8$.

14. **8** Height = $320 \div (5 \times 8) = 320 \div 40 = 8$.

15. **72** $12 \times 6 = 72$ cubic units.

16. **125** $V = 5^3 = 125$.

17. **576** Volume = $8 \times 9 \times 8 = 576$ cubic units.

18. **512** Volume of a cube = $8^3 = 512$.