Finding volume

Name _____ Date _____

Count the cubes.

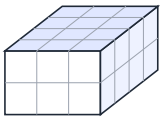
Common Core 5.MD.C.3–5

Example **A box has 3 layers of 14 cubes. What is its volume?**

1. Count the cubes in one layer (length × width): 14 cubes.
2. Multiply by the number of layers: 14 × 3 = 42.

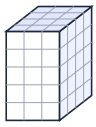
Answer: 42 cubic units

1



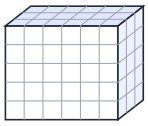
Volume = ☐ cubic units

2



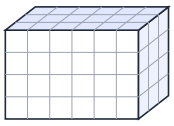
Volume = ☐ cubic units

3



Volume = ☐ cubic units

4



Volume = ☐ cubic units

Volume = length × width × height.

Example **Find the volume of a box 8 cm × 3 cm × 6 cm.**

1. Volume = length × width × height.
2. 8 × 3 = 24, then 24 × 6 = 144.

Answer: 144 cm^3

5 8 cm × 7 cm × 2 cm:

V = ☐ cm^3

6 2 cm × 3 cm × 6 cm:

V = ☐ cm^3

7 11 ft × 8 ft × 4 ft:

V = ☐ ft^3

8 5 ft × 9 ft × 4 ft:

V = ☐ ft^3

Free to share with other families. Not for resale.

More volume

Name _____ Date _____

Volume = base area × height.

Common Core 5.MD.C.5

Example Base area 18 m², height 4 m. V = ?

1. Volume = base area × height.
2. 18 × 4 = 72.

Answer: 72 m³

1. Base area 52 ft², height 5 ft:
   V = ____ ft³
2. Base area 12 m², height 6 m:
   V = ____ m³
3. Base area 47 in², height 3 in:
   V = ____ in³
4. Base area 39 cm², height 10 cm:
   V = ____ cm³
5. Base area 21 cm², height 12 cm:
   V = ____ cm³
6. Base area 43 ft², height 9 ft:
   V = ____ ft³

Divide the volume by the area of the base.

Example V = 126 cm³: 7 cm × 3 cm × ? cm

1. The base is 7 × 3 = 21 cm².
2. Divide the volume by the base: 126 ÷ 21 = 6.

Answer: 6 cm

7. V = 648 ft³:
   9 ft × 6 ft × ____ ft
8. V = 200 ft³:
   4 ft × 5 ft × ____ ft
9. V = 480 in³:
   12 in × 8 in × ____ in
10. V = 504 ft³:
    7 ft × 9 ft × ____ ft
11. V = 140 in³:
    10 in × 7 in × ____ in
12. V = 72 in³:
    2 in × 9 in × ____ in

Free to share with other families. Not for resale.

Answers

Answers are in the same order as the boxes.

Page 1 · Finding volume

1. 24
2. 60
3. 90
4. 72
5. 112 cm^3
6. 36 cm^3
7. 352 ft^3
8. 180 ft^3

Page 2 · More volume

1. 260 ft^3
2. 72 m^3
3. 141 in^3
4. 390 cm^3
5. 252 cm^3
6. 387 ft^3
7. 12 ft
8. 10 ft
9. 5 in
10. 8 ft
11. 2 in
12. 4 in

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