

Find the volume of a prism with fractional edge lengths

NAME	DATE	SCORE / 10
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1 A rectangular prism is $1\frac{2}{3}$ cm long, 3 cm wide and 4 cm high. What is the volume, in cubic centimetres, of the prism?

2 A box is $1\frac{2}{3}$ cm long, $1\frac{1}{3}$ cm wide and $2\frac{2}{3}$ cm high. It is packed with no gaps with small cubes whose edges are $\frac{1}{3}$ cm. How many small cubes fill the box?

3 A gift box is $2\frac{1}{4}$ cm long, 2 cm wide and $2\frac{1}{3}$ cm high. What is the volume, in cubic centimetres, of the box?

4 A box is 4 cm long, $2\frac{1}{2}$ cm wide and $2\frac{1}{2}$ cm high. It is packed with no gaps with small cubes whose edges are $\frac{1}{2}$ cm. How many small cubes fill the box?

- 5** A gift box is $1\frac{1}{2}$ cm long, $1\frac{2}{3}$ cm wide and 2 cm high. What is the volume, in cubic centimetres, of the box?

- 7** A rectangular prism is 1.2 m long, 1.8 m wide and 6 m high. What is the volume, in cubic metres, of the prism?

- 9** A box is $1\frac{1}{2}$ cm long, 6 cm wide and 4 cm high. What is the volume, in cubic centimetres, of the box?

- 6** A box is $1\frac{1}{2}$ cm long, 2 cm wide and $2\frac{1}{2}$ cm high. It is packed with no gaps with small cubes whose edges are $\frac{1}{2}$ cm. How many small cubes fill the box?

- 8** A box is $3\frac{1}{2}$ cm long, 2 cm wide and 1 cm high. It is packed with no gaps with small cubes whose edges are $\frac{1}{2}$ cm. How many small cubes fill the box?

- 10** A box is 4 cm long, 2 cm wide and $1\frac{1}{2}$ cm high. It is packed with no gaps with small cubes whose edges are $\frac{1}{2}$ cm. How many small cubes fill the box?

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1 20

2 160

3 10 $\frac{1}{2}$

4 200

5 5

6 60

7 12.96

8 56

9 36

10 96