

# Find the volume of a prism with fractional edge lengths

|      |      |            |
|------|------|------------|
| NAME | DATE | SCORE / 10 |
|------|------|------------|

- 1** A rectangular prism is 4.9 cm long, 1.5 cm wide and 5 cm high. What is the volume, in cubic centimetres, of the prism?

- 2** A box is  $3\frac{1}{2}$  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?

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

- 4** A box is 3 cm long,  $2\frac{1}{2}$  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?

- 5** A rectangular prism is  $\frac{3}{4}$  m long, 4 m wide and 5 m high. What is the volume, in cubic metres, of the prism?

- 6** A box is 3 cm long,  $2\frac{1}{2}$  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?

- 7** A gift box is 3 cm long, 4.1 cm wide and 1.7 cm high. What is the volume, in cubic centimetres, of the box?

- 8** A box is  $1\frac{1}{2}$  cm long,  $2\frac{1}{2}$  cm wide and 3 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?

- 9** A block of wood is  $\frac{1}{2}$  cm long, 4 cm wide and  $2\frac{1}{3}$  cm high. What is the volume, in cubic centimetres, of the block?

- 10** A box is  $1\frac{1}{3}$  cm long,  $1\frac{2}{3}$  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?

# Find the volume of a prism with fractional edge lengths

---

1 36.75

---

2 140

---

3  $11 \frac{2}{3}$

---

4 90

---

5 15

---

6 60

---

7 20.91

---

8 90

---

9  $4 \frac{2}{3}$

---

10 160