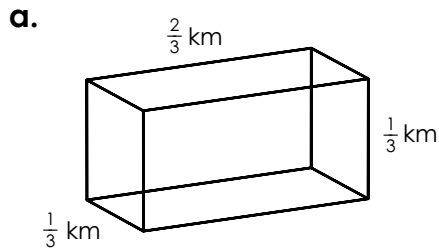


Name: _____

Volume of Rectangular Prisms

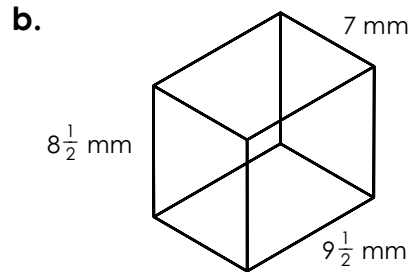
Unit Cubes

Find how many fractional unit cubes fit inside each rectangular prism. Then find the volume of each rectangular prism. Don't forget to label the units. Simplify where possible.



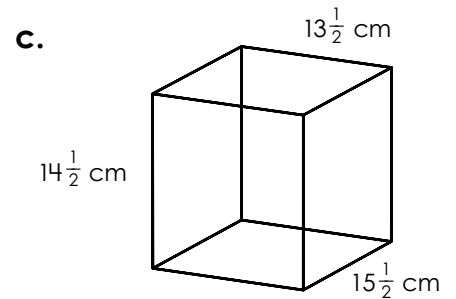
total $\frac{1}{3}$ -km cubes: _____

total volume: _____



total $\frac{1}{2}$ -mm cubes: _____

total volume: _____



total $\frac{1}{2}$ -cm cubes: _____

total volume: _____



total volume: _____

total volume: _____

total volume: _____

g.

$$l = 20\frac{2}{3} \text{ mm}$$

$$w = 15 \text{ mm}$$

$$h = 15 \text{ mm}$$

total $\frac{1}{3}$ -mm cubes: _____

total volume: _____

h.

$$l = 1\frac{1}{2} \text{ km}$$

$$w = 1\frac{1}{2} \text{ km}$$

$$h = \frac{1}{2} \text{ km}$$

total $\frac{1}{2}$ -km cubes: _____

total volume: _____

i.

$$l = 6 \text{ cm}$$

$$w = 2\frac{1}{2} \text{ cm}$$

$$h = 5\frac{1}{4} \text{ cm}$$

total $\frac{1}{4}$ -cm cubes: _____

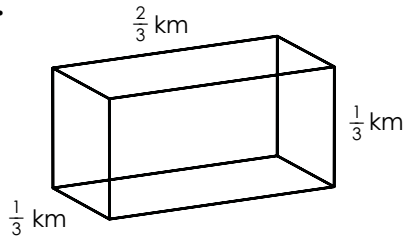
total volume: _____

ANSWER KEY

Volume of Rectangular Prisms Unit Cubes

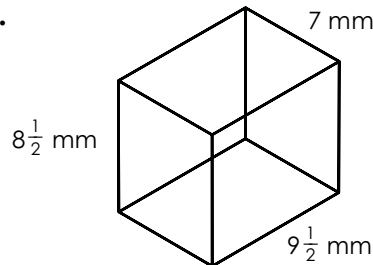
Find how many fractional unit cubes fit inside each rectangular prism. Then find the volume of each rectangular prism. Don't forget to label the units. Simplify where possible.

a.



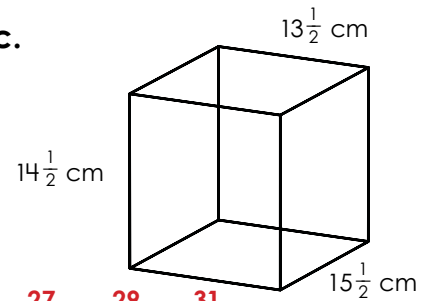
$$\underline{2} \times \underline{1} \times \underline{1}$$

b.



$$\underline{14} \times \underline{17} \times \underline{19}$$

c.



$$\underline{27} \times \underline{29} \times \underline{31}$$

Preview

Please log in to download
the printable version of this worksheet.



total volume: $4,650 \text{ mm}^3$ total volume: $1\frac{1}{8} \text{ km}^3$ total volume: $78\frac{3}{4} \text{ cm}^3$