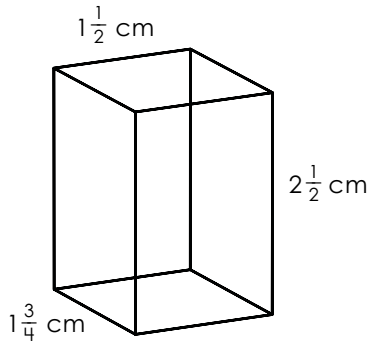


Name: _____

Volume of a Rectangular Prism



To find the exact volume of a rectangular prism with fractional edge lengths, convert the dimensions into improper fractions. Then multiply the length by the width by the height.

$$V = l \times w \times h$$

$$V = \frac{3}{2} \times \frac{7}{4} \times \frac{9}{4}$$

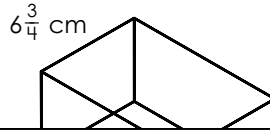
$$V = \frac{189}{32} \text{ cm}^3 = 5 \frac{29}{32} \text{ cm}^3$$

Calculate the volume of each rectangular prism. Be sure to include units in your answer.

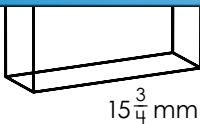
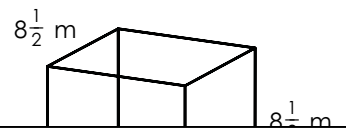
a.



b.



c.

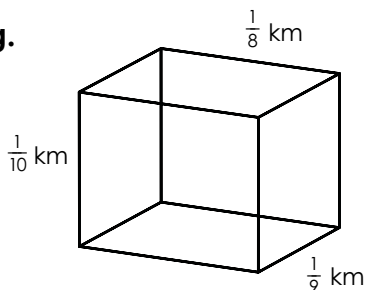


V = _____

V = _____

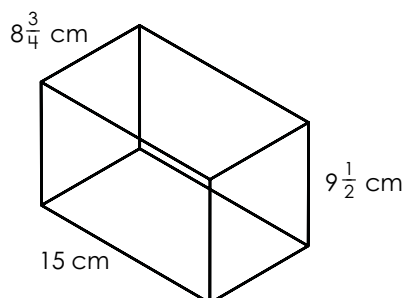
V = _____

g.



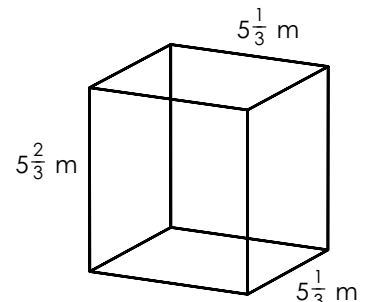
V = _____

h.



V = _____

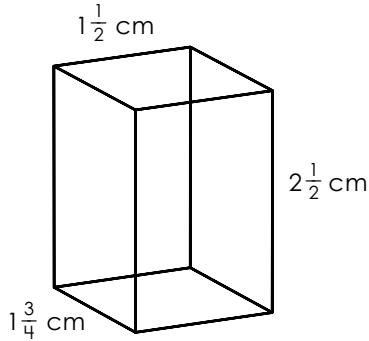
i.



V = _____

ANSWER KEY

Volume of a Rectangular Prism



To find the exact volume of a rectangular prism with fractional edge lengths, convert the dimensions into improper fractions. Then multiply the length by the width by the height.

$$V = l \times w \times h$$

$$V = \frac{3}{2} \times \frac{7}{4} \times \frac{9}{4}$$

$$V = \frac{189}{32} \text{ cm}^3 = 5\frac{29}{32} \text{ cm}^3$$

Preview

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



V = 120 V = 8 V = 27