



Measurement *Rounding*



Rounding & Calculations

Measurement 1
2 S.F.

Length = 1.3 cm

Measurement 2
1 S.F.

Width = 5 cm

Measurement 3
4 S.F.

Height = 23.45 cm

$$\text{Volume} = \text{Length} \times \text{Width} \times \text{Height}$$

Calculation

Fewest
Possible S.F.

Answer
1 S.F.

$$\begin{array}{ccccccc} \text{L} & \times & \text{W} & \times & \text{H} & = & \\ 1.3 \text{ cm} & \times & 5 \text{ cm} & \times & 23.45 \text{ cm} & = & 152.425 \text{ cm}^3 \end{array}$$

dropped digits

Round 1 up to 2

Answer: 200 cm³



Rules for Rounding (pg. 28)

Dropped digit > 5

Round UP by 1

Round 45.6767 cm to 4 S.F.

Answer: 45.68 cm

Dropped digit < 5

DON'T round up

Round 324.478 cm to 3 S.F.

Answer: 324 cm

Dropped digit = 5 or = 500000...

Round UP if Odd (1,3,5, etc)

DON'T round up if already even

Round 0.1235 cm to 3 S.F.

Answer: 0.124 cm

Round 0.12450 cm to 3 S.F.

Answer: 0.124 cm

