GEOMETRY & MEASURE: PERIMETER & CONVERSIONS

I Do

Best Guess Mastery Worksheet (Target Grade 3/4)

..... cm

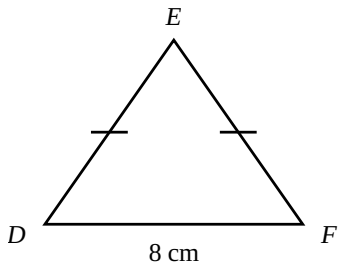
(a) Change 7.25 metres into centimetres. **(1)**

..... litres

(b) Change 3800 millilitres into litres. **(1)**

Here is an isosceles triangle *DEF*.

Diagram NOT accurately drawn



DF = 8 cm.
The perimeter of the triangle is 38 cm.

(c) Work out the length of *DE*.

..... cm **(2)**

We Do

..... cm

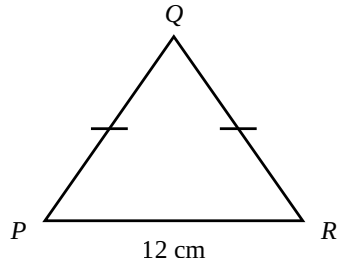
(a) Change 4.1 metres into centimetres. **(1)**

..... litres

(b) Change 6250 millilitres into litres. **(1)**

Here is an isosceles triangle *PQR*.

Diagram NOT accurately drawn



PR = 12 cm.
The perimeter of the triangle is 46 cm.

(c) Work out the length of *PQ*.

..... cm

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You Do 1

Best Guess Mastery Worksheet (Target Grade 3/4)

(a) Change 9.04 metres into centimetres.

..... cm **(1)**

(b) Change 1500 millilitres into litres.

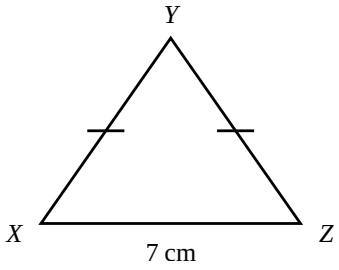
..... litres **(1)**

Here is an isosceles triangle *XYZ*.

XZ = 7 cm.
The perimeter of the triangle is 29 cm.

(c) Work out the length of *XY*.

Diagram NOT accurately drawn



..... cm **(2)**

You Do 2

(a) Change 0.85 metres into centimetres.

..... cm **(1)**

(b) Change 700 millilitres into litres.

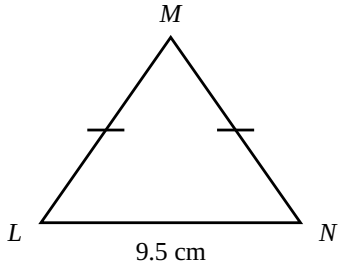
..... litres **(1)**

Here is an isosceles triangle *LMN*.

LN = 9.5 cm.
The perimeter of the triangle is 40.5 cm.

(c) Work out the length of *LM*.

Diagram NOT accurately drawn



..... cm

GEOMETRY & MEASURE: PERIMETER & CONVERSIONS

Challenge 1

Best Guess Mastery Worksheet (Target Grade 4/5)

(a) Change 4.5 kilograms into grams. ..... g **(1)**

(b) Change 250 centimetres into metres. ..... m **(1)**

Here is a rectangle.

Diagram NOT accurately drawn



The perimeter of the rectangle is 4.2 metres.
The width of the rectangle is 80 cm.

(c) Work out the length of the rectangle.
Give your answer in centimetres.

..... cm **(3)**

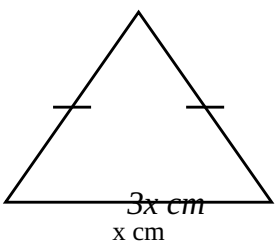
Challenge 2

(a) Change 0.05 litres into millilitres. ..... ml **(1)**

(b) Change 85 millimetres into centimetres. ..... cm **(1)**

Here is an isosceles triangle.

Diagram NOT accurately drawn



The perimeter of the triangle is 1.05 metres.

(c) Work out the value of x.

..... cm

(3)

Answers & Worked Solutions

I Do:

(a) 7.25 × 100 = **725 cm**

(b) 3800 ÷ 1000 = **3.8 litres**

(c) The two sloping sides are equal.

Sum of two sides = 38 − 8 = 30 cm.

One side (*DE*) = 30 ÷ 2 = **15 cm**.

We Do:

(a) 4.1 × 100 = **410 cm**

(b) 6250 ÷ 1000 = **6.25 litres**

(c) Sum of two equal sides = 46 − 12 = 34 cm.

One side (*PQ*) = 34 ÷ 2 = **17 cm**.

You Do 1:

(a) 9.04 × 100 = **904 cm**

(b) 1500 ÷ 1000 = **1.5 litres**

(c) Sum of two equal sides = 29 − 7 = 22 cm.

One side (*XY*) = 22 ÷ 2 = **11 cm**.

You Do 2:

(a) 0.85 × 100 = **85 cm**

(b) 700 ÷ 1000 = **0.7 litres**

(c) Sum of equal sides = 40.5 − 9.5 = 31 cm.

One side (*LM*) = 31 ÷ 2 = **15.5 cm**.

Challenge 1:

(a) 4.5 × 1000 = **4500 g**

(b) 250 ÷ 100 = **2.5 m**

(c) Convert perimeter to cm: 4.2 m = 420 cm.

A rectangle has 2 widths and 2 lengths.

Two widths = 80 + 80 = 160 cm.

Two lengths = 420 − 160 = 260 cm.

One length = 260 ÷ 2 = **130 cm**.

Challenge 2:

(a) 0.05 × 1000 = **50 ml**

(b) 85 ÷ 10 = **8.5 cm**

(c) Convert perimeter to cm: 1.05 m = 105 cm.

Set up an equation for the perimeter:

$x + 3x + 3x = 105$

$7x = 105$

$x = 105 \div 7$

$\boldsymbol{x = 15}$