

Friday 17th July 2020

WALT - answer questions around measurement

**To end the week we are going to review our knowledge of measurement through an assessment.**

**Points that we will cover are to-**

Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

Solve problems involving converting between units of time.

1. Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre].

Choose the correct number to complete each statement:

a) 12            120            1200

There are  metres in 1.2 kilometres.

There are 12 000 millimetres in  metres.

There are  millimetres in 12 centimetres.

b) 15            150            1500

There are  grams in 0.15 kilograms

There are 15 000 grams in  kilograms

There are  grams in 1 ½ kilograms

3 marks

3 marks

Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.

Circle the best answer for the equivalence of the following:

1 inch = 12.5cm or 2.5cm

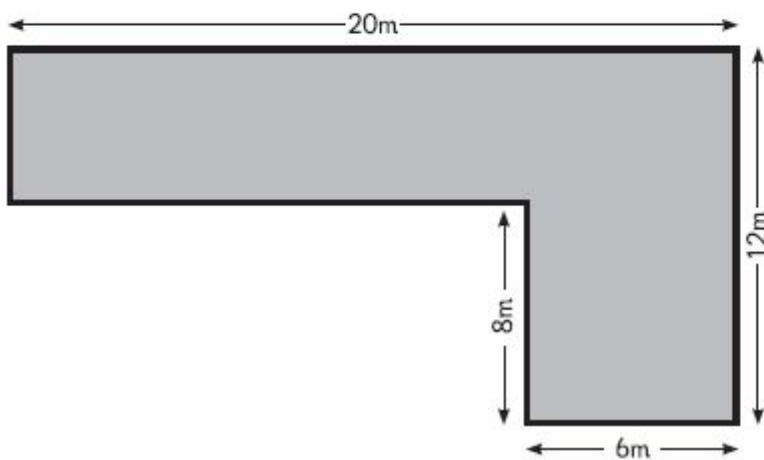
1 mile = 1.6km or 11.6km

1 pound = 453.59g or 45.35g

1 pint = 0.57l or 5.7l

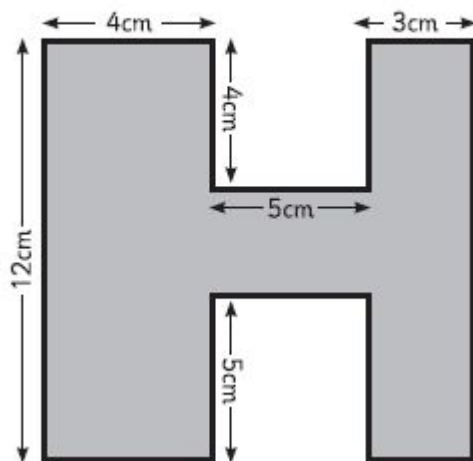
3. Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.

a) Work out the perimeter of this shape:



Answer:  m

b) Calculate the perimeter of this shape (not drawn to scale).



Answer:  cm



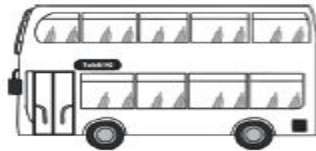
6. Solve problems involving converting between units of time.

- a) Lara went to visit her cousin. She left home at 10.30 am. It took her 20 minutes to walk to her cousin's house. She stopped there for 2 and  $\frac{1}{2}$  hours. Her uncle drove her home and the journey took 10 minutes. What time did she get home? Show your working out.



Here is the bus timetable for the Number 18 bus from Jarton Town Centre to Wheelby Bus Station:

Jarton Town Centre	10:08
Jarton Country Park	10:11
Zeetly	10:28
Canley	10:39
Wheelby Train Station	10:55
Wheelby Bus Station	11:02



- b) How long does it take for the journey from Jarton town centre to Wheelby Bus Station?

- c) How long does it take from Jarton Country Park to Wheelby Train Station?

- d) Jagdeep arrives at the bus stop at Canley at 10:27. How long does he have to wait until the bus arrives?

- e) Today is March 24th, how many days have passed since December 31st? This year is not a leap year.

- f) Today is 2nd April, Mark's birthday is on June 5th. How many days is it until his birthday?

2 marks

1 mark

Total for this page

1 mark

1 mark

1 mark

1 mark

Answers -

question	answer	marks
<b>1. Convert between different units of metric measure (for example metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</b>		
a	There are <b>1200</b> metres in 1.2 kilometres. There are 12 000 millimetres in <b>12</b> metres. There are <b>120</b> millimetres in 12 centimetres.	3
b	There are <b>150</b> grams in 0.15 kilogram. There are 15 000 grams in <b>15</b> kilograms. There are <b>1500</b> grams in 1 1/2 kilograms	3

<b>2. Understand and use approximate equivalences between metric and imperial units (for example metres and inches, pounds and kilograms, litres and pints)</b>		
	1 inch = 2.5 cm or <b>2.5 cm</b> 1 mile = <b>1.6 km</b> or 11.6 km 1 pound = <b>453.59g</b> or 45.35g 1 pint = <b>0.57l</b> or 5.7l	4

<b>3. Measure and calculate the perimeter of composite rectilinear shapes</b>		
a	64cm	1
b	66cm	1

c	44 minutes	1
d	12 minutes	1
e	83 days	1
f	64 days	1

