TEST C *You will need a pencil and a ruler.* **Year 6**

Mathematics Assessment: MEASUREMENT

Name..... Class..... Date.....

1 Write **TRUE (T)** or **FALSE (F)** after these statements.

a) **1** mile is about **1.6** kilometres. ☐

b) **3.5** centimetres is about **1** inch. ☐

c) **1** kilometre is about **0.6** miles. ☐

d) **1** $\frac{3}{4}$ pints is about 1 litre. ☐

2 marks

2 One kilogram is equal to **2.2046** pounds.
Gracie's suitcase, weighed **9 kg**. She wanted to know exactly how many pounds it weighed.

a) How many pounds did Gracie's suitcase weigh?

Use this box for your working out.

☐ pounds

b) Now round the weight of the suitcase to **3** decimal places. ☐ pounds

2 marks

Page Total ☐

3 Convert between these standard units of length.

a) 7.4 m = ☐ cm

b) 96 mm = ☐ cm

c) 8.964 km = ☐ m

d) 746 cm = ☐ m

2 marks

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4 Convert between these standard units of mass and capacity.

a) 8 kg = ☐ g

b) 9326 g = ☐ kg

c) 5.843 *l* = ☐ ml

d) 136 ml = ☐ *l*

2 marks

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5 Convert between these standard units of time.

a) 5 minutes = ☐ seconds

b) 49 days = ☐ weeks

c) 540 minutes = ☐ hours

d) 5.5 years = ☐ months

2 marks

Page Total ☐

6 Matilda travelled **95** miles by ship.

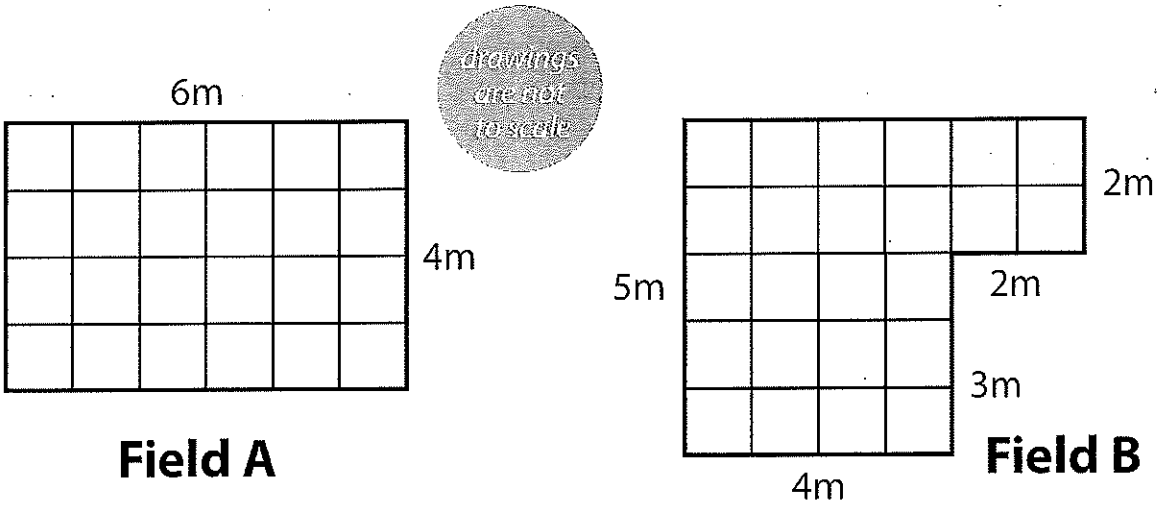
Approximately, how many kilometres was this?

Use this box for your working out.

kilometres

2 marks

7 Look at the measurements of fields **A** and **B** below.



Field **A** and field **B** have the same area (**24 m²**). Farmer Cowell wants to put a fence around each field.

How long will the fences be?

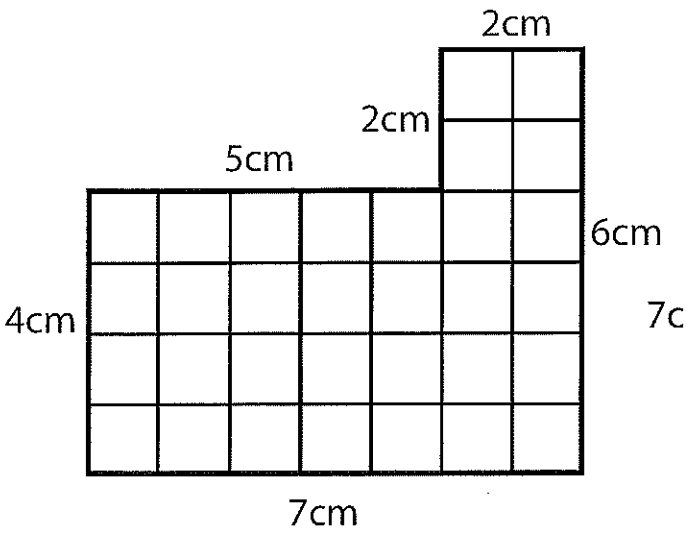
Field A m

Field B m

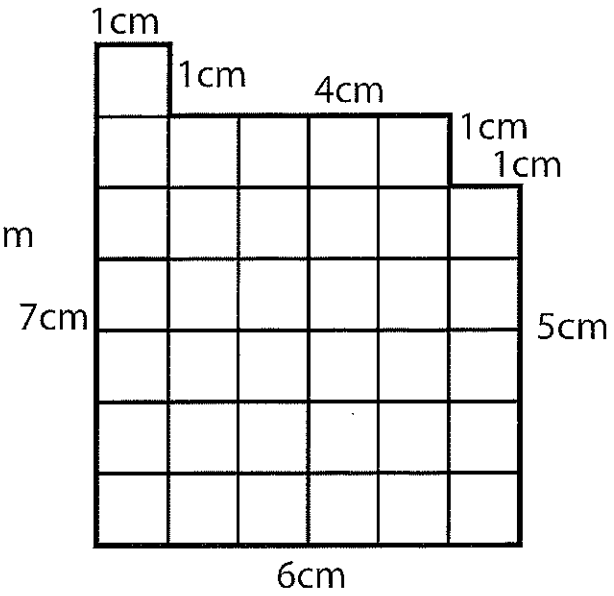
2 marks

Page Total

8 Small squares (**1 cm²**) have been arranged to make the shapes below.



Shape A



Shape B

drawings are not to scale

Imogen says, "The perimeter of the shapes is the same so there are the same number of squares in each shape."

Is she correct?

Tick (✓)

Yes or No

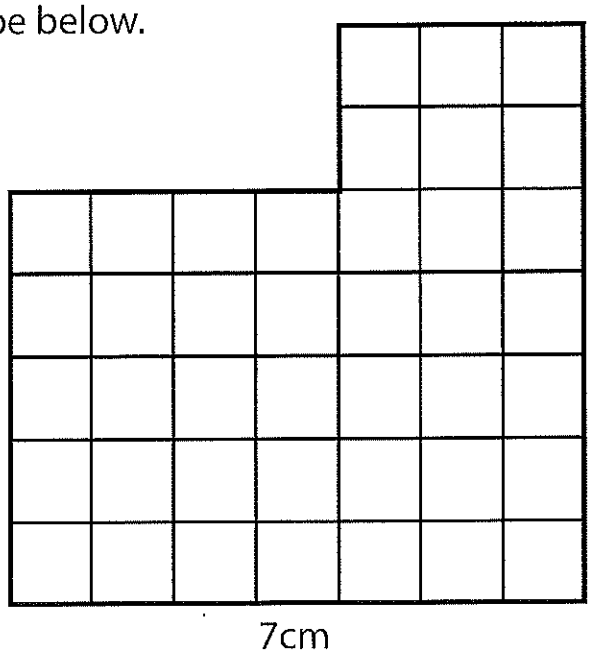
Use the box below to explain how you know.

2 marks

Page Total

9 The formula for the area of a rectangle is $\mathbf{A} = \boldsymbol{l} \times \mathbf{w}$
(Area = length x width)

Look at the shape below.



DRAWINGS ARE NOT TO SCALE

Circle the equation which describes the area of the shape.

$\mathbf{A} = 9 \times 7$ $\mathbf{A} = (5 \times 4) + (7 \times 3)$ $\mathbf{A} = 7 \times 7$

2 marks

10 Tick (✓) the statement below which is true.

a) You can use a formula to find the volume of a tea pot. ☐

b) You can use a formula to find the volume of a sock. ☐

c) You can use a formula to find the volume of a cube. ☐

2 marks

Page Total

11 The area of a parallelogram is found by multiplying the base by the height (**A** = **b** x **h**).

Fill in the missing values for the parallelograms below.

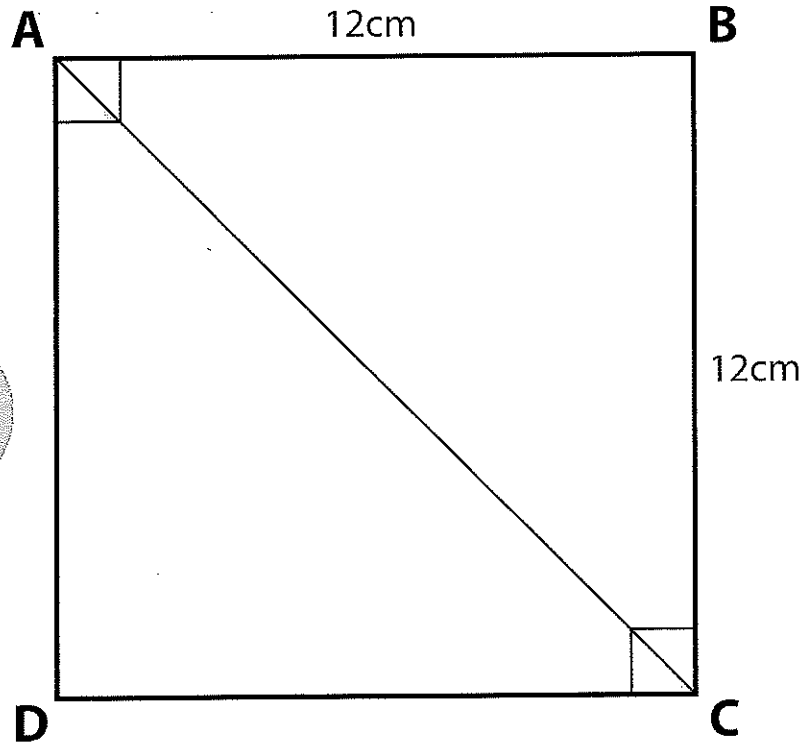
a) $30\ cm^2 =$ ☐ cm x 6 cm

b) ☐ $m^2 = 7\ m \times 8\ m$

c) $54\ mm^2 = 6\ mm \times$ ☐ mm

2 marks

12 Look at the shape below.



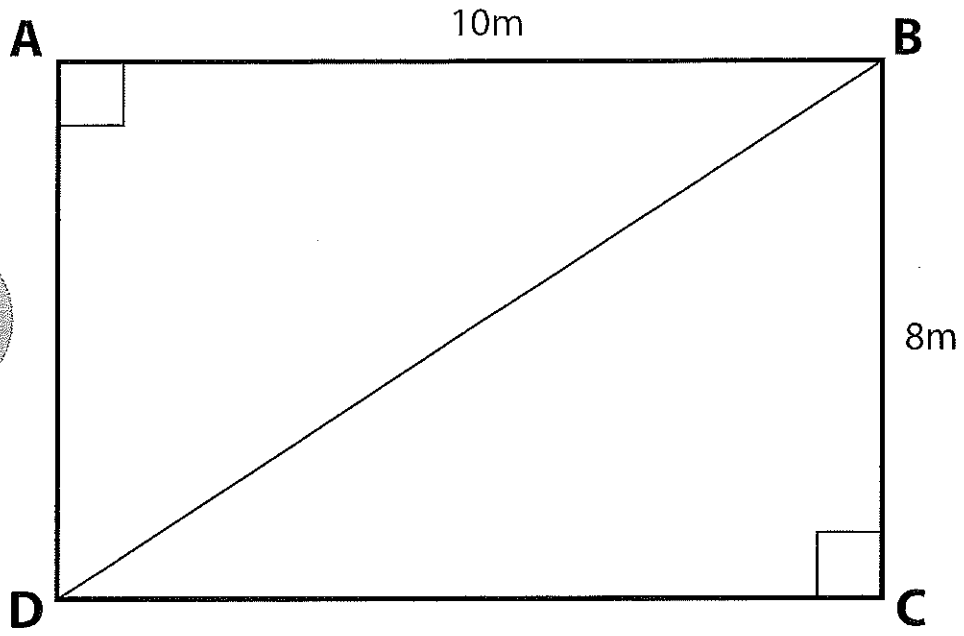
Complete the formula by adding a fraction.

The area of triangle **ABC** = **12** x **12** x ☐ **cm²**

2 marks

Page Total

13 Calculate the area of the triangle **BCD**.



drawing is not to scale

The area of triangle **BCD** = ____ m^2

2 marks

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14 Container A measures **6cm** x **12cm** x **7cm**.
Container B measures **5cm** x **12cm** x **8cm**.

Which container has the greater volume?

Tick (✓) [**A**] or [**B**]

Use the box below to explain how you know.

2 marks

Page Total

15 Put the following volumes in order of size, starting with the smallest.

$50\ m^3$	$5\ km^3$	$5000\ cm^3$	$50{,}000\ mm^3$
smallest			**largest**

2 marks

End of Test

Page Total

TEST TOTAL

/ 30

PERCENTAGE SCORE

%