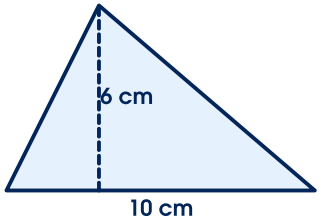
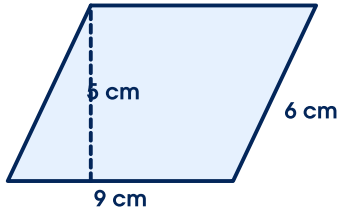
GCSE FOUNDATION · REVISION MAT 1

Area of triangles and quadrilaterals

1 Work out the area of this triangle.



2 Work out the area of this parallelogram.

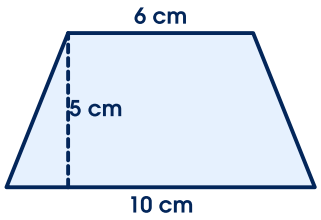


3 A triangle has base 8 cm and perpendicular height 5 cm.

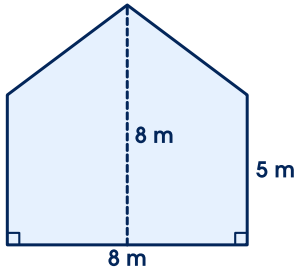
Max says the area is 40 cm^2.

Explain the mistake Max has made.

4 Show that the area of this trapezium is 40 cm^2.



5 The diagram shows the end wall of a shed.



One tin of paint covers 10 m^2.

How many tins are needed to paint the wall?

6 A trapezium has an area of 56 cm^2.

Its parallel sides are 5 cm and 9 cm.

Work out the perpendicular height of the trapezium.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

Area of triangles and quadrilaterals

1 $\frac{1}{2} \times 10 \times 6 = \mathbf{30\ cm^2}$

2 Area = base × perpendicular height

$9 \times 5 = \mathbf{45\ cm^2}$

3 Max forgot to halve: a triangle is half of a rectangle.

$\frac{1}{2} \times 8 \times 5 = \mathbf{20\ cm^2}$

4 $\frac{1}{2} \times (6 + 10) \times 5$

$= \mathbf{40\ cm^2}$ ✓

5 Rectangle $8 \times 5 = 40\ m^2$

Triangle $\frac{1}{2} \times 8 \times 3 = 12\ m^2$

Total $52\ m^2$

$52 \div 10 = 5.20$, so **6 tins**

6 $\frac{1}{2} \times (5 + 9) \times h = 56$

$7h = 56$

$h = \mathbf{8\ cm}$

Mr&Mrs MATHS