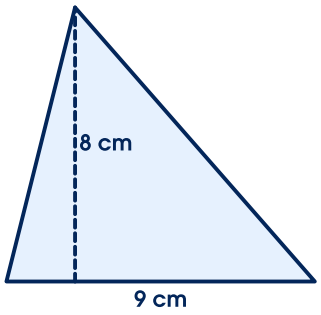
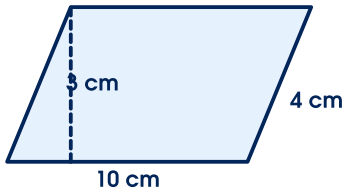
GCSE FOUNDATION · REVISION MAT 4

Area of triangles and quadrilaterals

1 Work out the area of this triangle.



2 Work out the area of this parallelogram.

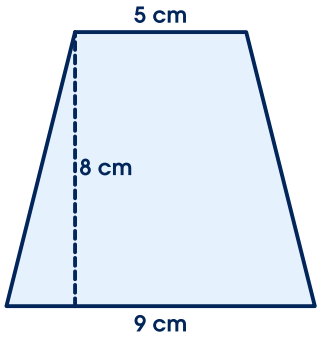


3 A triangle has base 14 cm and perpendicular height 3 cm.

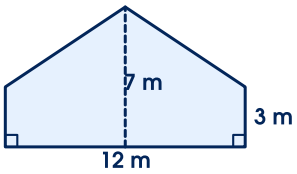
Pete says the area is 42 cm^2.

Explain the mistake Pete has made.

4 Show that the area of this trapezium is 56 cm^2.



5 The diagram shows the end wall of a shed.



One tin of paint covers 12 m^2.

How many tins are needed to paint the wall?

6 A trapezium has an area of 90 cm^2.

Its parallel sides are 8 cm and 12 cm.

Work out the perpendicular height of the trapezium.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 4

Area of triangles and quadrilaterals

1 $\frac{1}{2} \times 9 \times 8 = \mathbf{36\ cm^2}$

2 Area = base × perpendicular height

$10 \times 3 = \mathbf{30\ cm^2}$

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

$\frac{1}{2} \times 14 \times 3 = \mathbf{21\ cm^2}$

4 $\frac{1}{2} \times (5 + 9) \times 8$

$= \mathbf{56\ cm^2}$ ✓

5 Rectangle $12 \times 3 = 36\ m^2$

Triangle $\frac{1}{2} \times 12 \times 4 = 24\ m^2$

Total $60\ m^2$

$60 \div 12 = 5.00$, so **5 tins**

6 $\frac{1}{2} \times (8 + 12) \times h = 90$

$10h = 90$

$h = \mathbf{9\ cm}$

Mr&Mrs MATHS