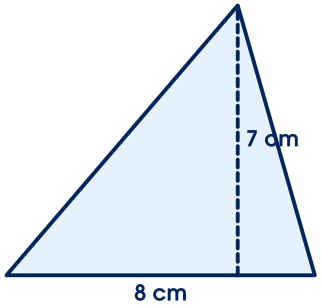
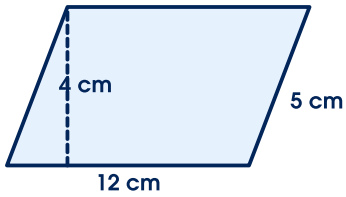
GCSE FOUNDATION · REVISION MAT 2

Area of triangles and quadrilaterals

1 Work out the area of this triangle.



2 Work out the area of this parallelogram.

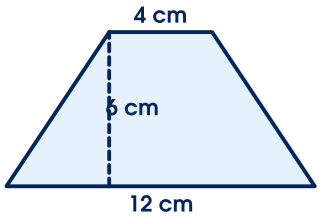


3 A triangle has base 12 cm and perpendicular height 7 cm.

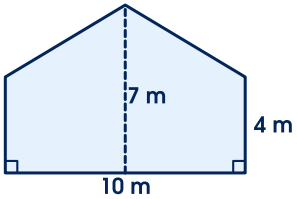
Nina says the area is 84 cm^2.

Explain the mistake Nina has made.

4 Show that the area of this trapezium is 48 cm^2.



5 The diagram shows the end wall of a shed.



One tin of paint covers 8 m^2.

How many tins are needed to paint the wall?

6 A trapezium has an area of 72 cm^2.

Its parallel sides are 7 cm and 11 cm.

Work out the perpendicular height of the trapezium.

Mr&Mrs MATHS

1 $\frac{1}{2} \times 8 \times 7 =$ **28 cm²**

2 Area = base × perpendicular height

$12 \times 4 =$ **48 cm²**

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

$\frac{1}{2} \times 12 \times 7 =$ **42 cm²**

ANSWERS · REVISION MAT 2

Area of triangles and quadrilaterals

4 $\frac{1}{2} \times (4 + 12) \times 6$

= **48 cm²** ✓

5 Rectangle $10 \times 4 = 40$ m²

Triangle $\frac{1}{2} \times 10 \times 3 = 15$ m²

Total 55 m²

$55 \div 8 = 6.88$, so **7 tins**

6 $\frac{1}{2} \times (7 + 11) \times h = 72$

$9h = 72$

$h =$ **8 cm**

Mr&Mrs MATHS