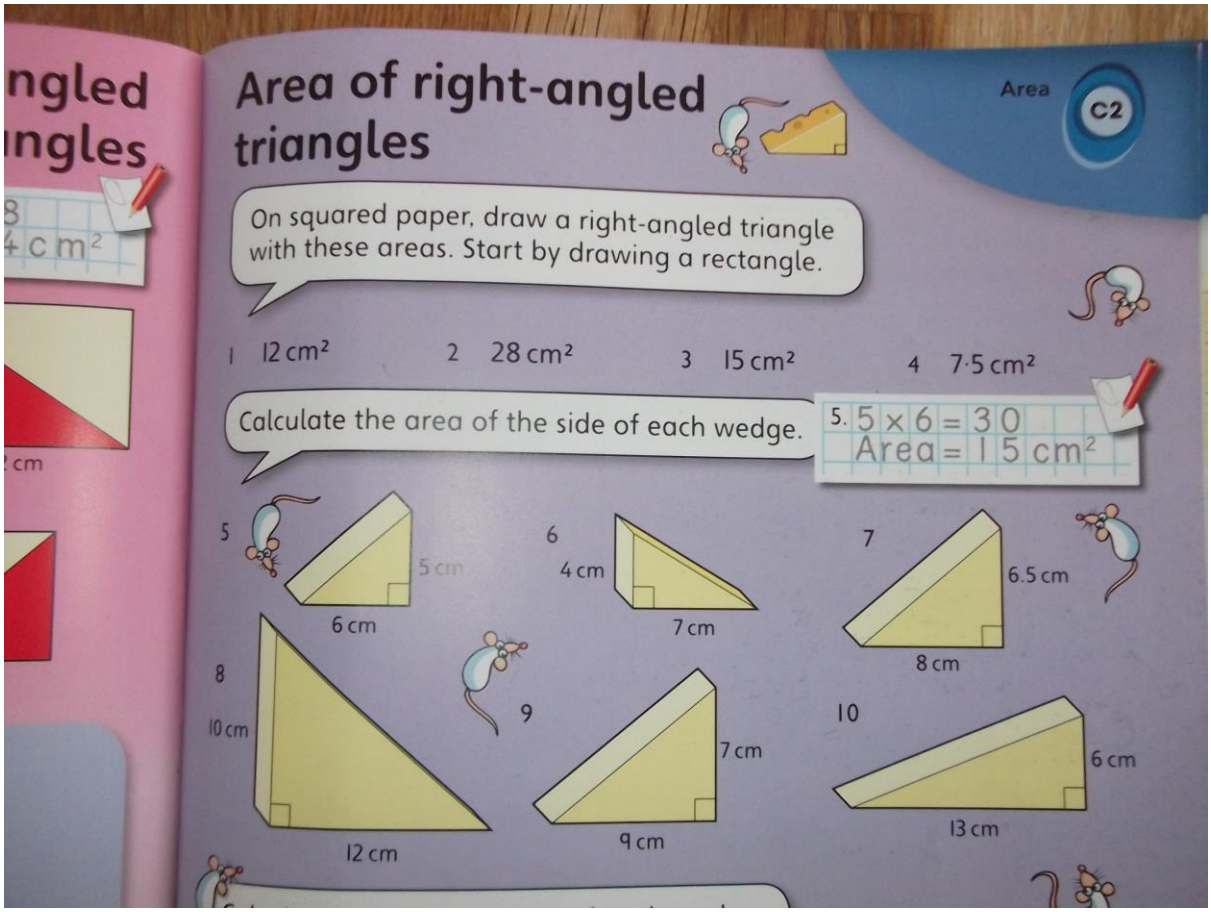
Abacus 6 – Book 2 – Work for Wednesday 25th



Area of right-angled triangles

Area C2

On squared paper, draw a right-angled triangle with these areas. Start by drawing a rectangle.

1 12 cm² 2 28 cm² 3 15 cm² 4 7·5 cm²

Calculate the area of the side of each wedge.

5. 5 x 6 = 30
Area = 15 cm²

5 5 cm 6 cm

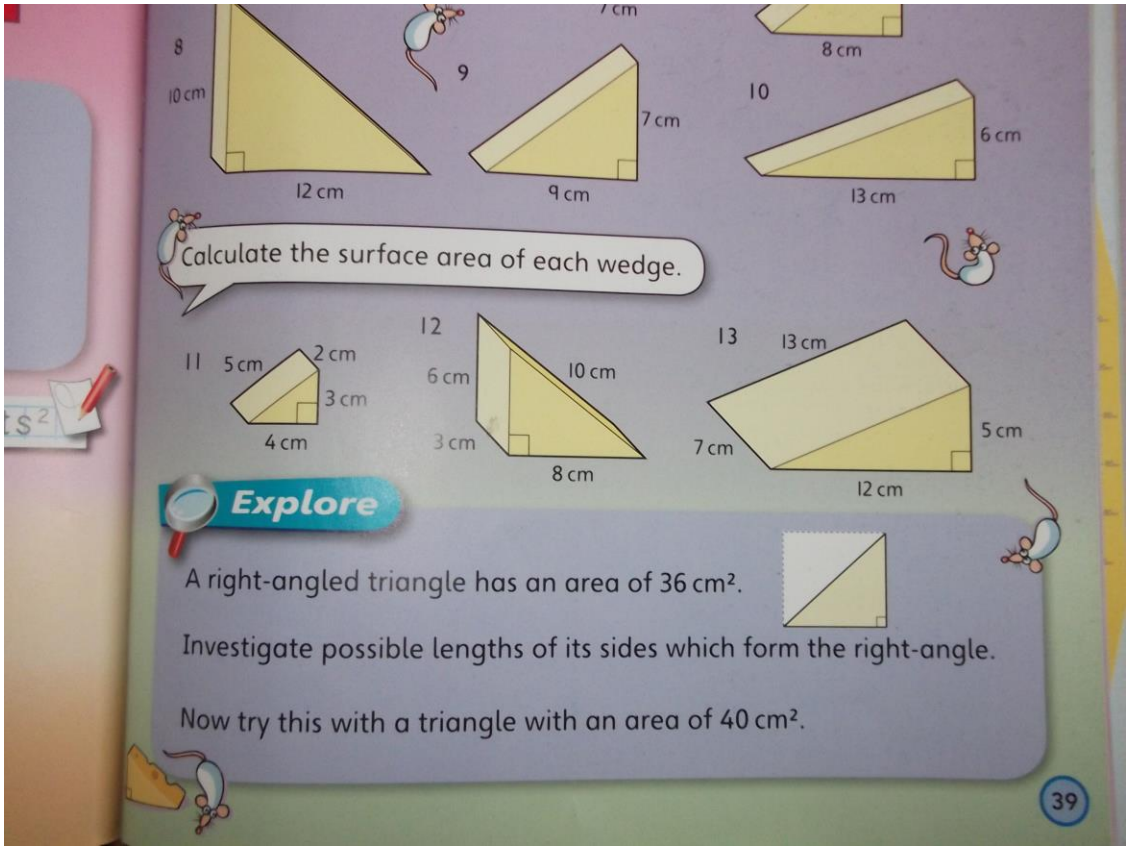
6 4 cm 7 cm

7 6.5 cm 8 cm

8 10 cm 12 cm

9 7 cm 9 cm

10 6 cm 13 cm



8 10 cm 12 cm

9 7 cm 9 cm

10 6 cm 13 cm

Calculate the surface area of each wedge.

11 5 cm 2 cm 3 cm 4 cm

12 6 cm 10 cm 3 cm 8 cm

13 13 cm 5 cm 7 cm 12 cm

Explore

A right-angled triangle has an area of 36 cm².

Investigate possible lengths of its sides which form the right-angle.

Now try this with a triangle with an area of 40 cm².