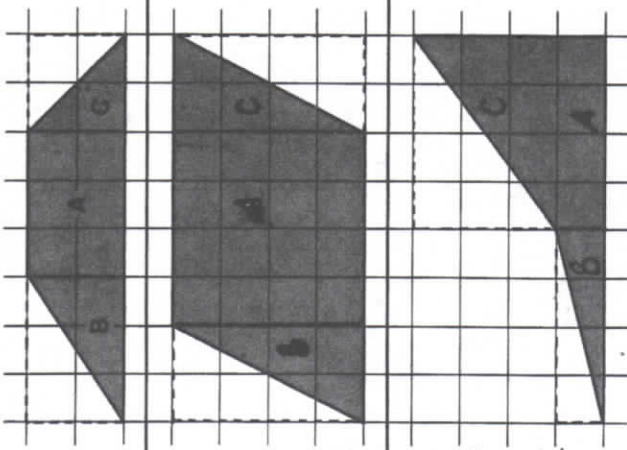


Using right-angled triangles

Draw lines to divide each shape into rectangles and right-angled triangles. For each right-angled triangle draw the surrounding rectangle. Find the area of each whole shape.



- 1 Area of rectangle A = 6 cm²
 Area of right-angled triangle B = 3 cm²
 Area of right-angled triangle C = 2 cm²

Area of whole shape = 11 cm²

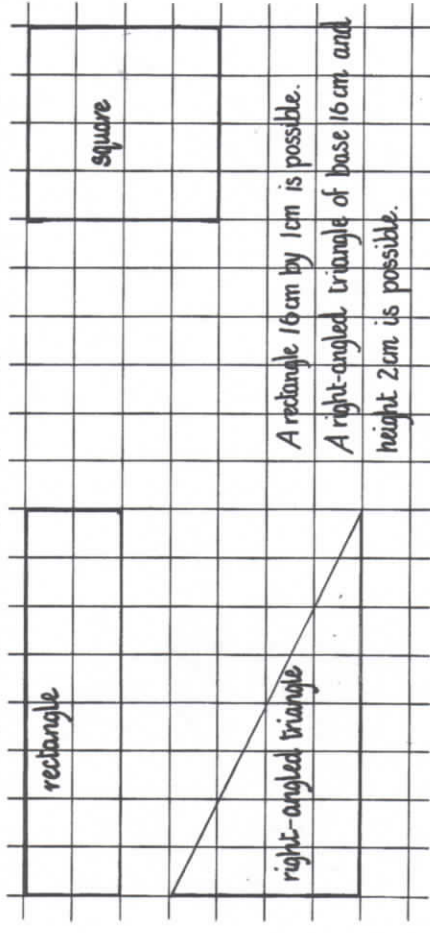
- 2 Area of square A = 16 cm²
 Area of right-angled triangle B = 4 cm²
 Area of right-angled triangle C = 4 cm²
 Area of whole shape = 24 cm²

Other divisions are possible.

- 3 Area of rectangle A = 4 cm²
 Area of right-angled triangle B = 2 cm²
 Area of right-angled triangle C = 6 cm²
 Area of whole shape = 12 cm²

Other divisions are possible.

- 4 Draw a rectangle, a square, and a right-angled triangle each with an area of 16 cm².



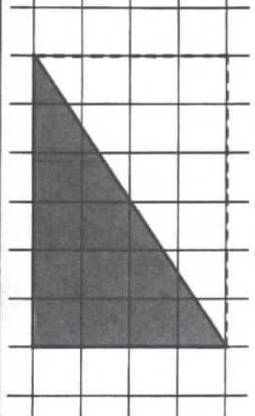
A rectangle 16 cm by 1 cm is possible.
 A right-angled triangle of base 16 cm and height 2 cm is possible.

Do Workbook Page 35.

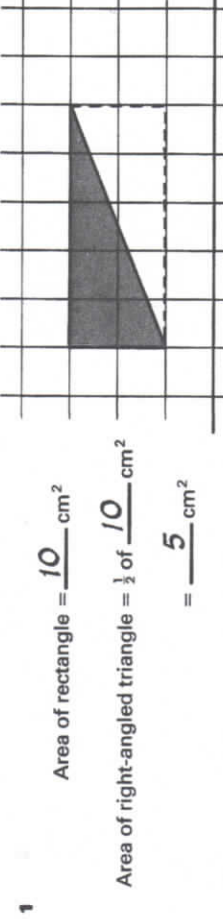
Areas of right-angled triangles

To find the area of the orange triangle first draw its surrounding rectangle and then record like this:

Area of rectangle = 24 cm²
 Area of right-angled triangle = $\frac{1}{2}$ of 24 cm²
 = 12 cm²



Find the area of each right-angled triangle after drawing its surrounding rectangle.



1 Area of rectangle = 10 cm²

Area of right-angled triangle = $\frac{1}{2}$ of 10 cm²
 = 5 cm²

2

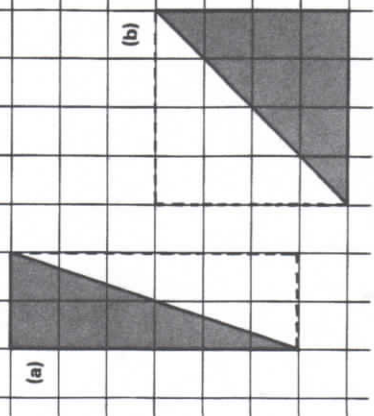
Area of rectangle = 18 cm²
 Area of right-angled triangle = $\frac{1}{2}$ of 18 cm²
 = 9 cm²

3 (a)

Area of rectangle = 12 cm²
 Area of right-angled triangle = $\frac{1}{2}$ of 12 cm²
 = 6 cm²

(b)

Area of square = 16 cm²
 Area of right-angled triangle = $\frac{1}{2}$ of 16 cm²
 = 8 cm²



Go back to Textbook Page 81, question 5.