Convert 0,2 km² to hectare.

Solution

1 km² = 100 ha

0,2 km² × 100

= 20 ha

Convert 3,5 hectare to m².

Solution

3,5 × 10 000
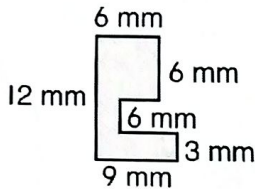
= 35 000 m²

Activity 4.3 Area of 2D shapes

40 minutes

1. Calculate the areas of the following shapes or shaded sections, correct to one decimal place.

a)

6 mm
6 mm
12 mm
6 mm
3 mm
9 mm

b)

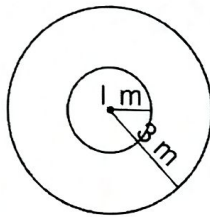3,2 m
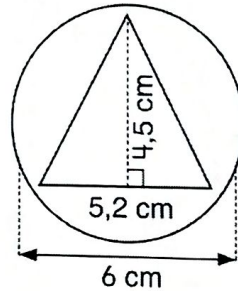2,5 m
62 cm 198 cm

c)

1 m
3 m

d)

4,5 cm
5,2 cm
6 cm
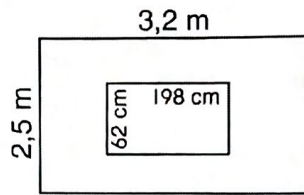
2. The area of a circle is 50,27 m².
   Determine the radius of this circle correct to the nearest metre.

3. Ryan is tiling his bathroom with ceramic tiles that cost R139,95 per box.
   a) How many square metres of tile will Ryan require if the rectangular bathroom has a width of 2,8 m and a length of 3,1 m?
   b) How many boxes of tiles should Ryan order if each box has enough tiles to cover 0,5 m²?
   c) What will the cost of the tiles be?

4. An A4 sheet of paper is approximately 30 cm long and 21 cm wide.
   Calculate the area:
   a) of the rectangle formed by folding an A4 sheet in half by joining the two 21 cm sides.
   b) of the rectangle formed by folding an A4 sheet in half by joining the two 30 cm sides.
   c) of the triangle formed by cutting an A4 in half diagonally.

5. Convert:
   a) 5,1 ha to m²
   b) 0,012 m² to mm²
   c) 430 cm² to m²