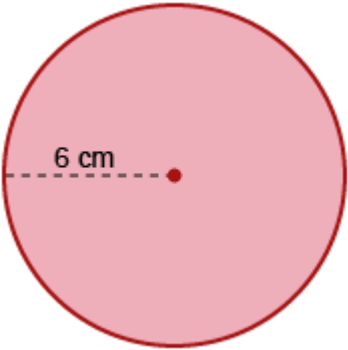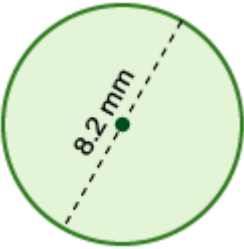## CIRCLES AND BITS OF CIRCLES

TASK 1   **Full circle**
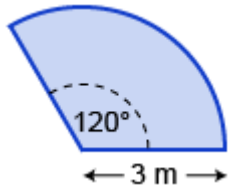
Use the formula to determine the areas of these circles. Give each answer correct to 2 decimal places.

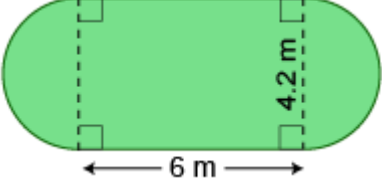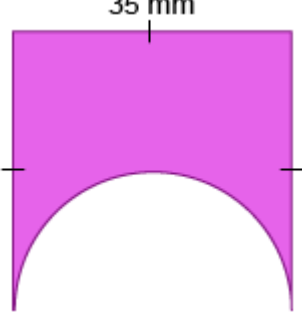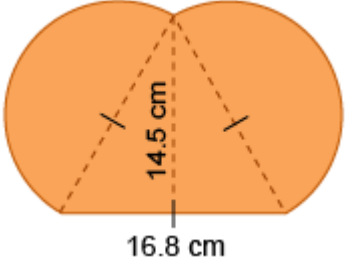| 1	2	3 A circle radius 148 m.
6 cm	8.2 mm	

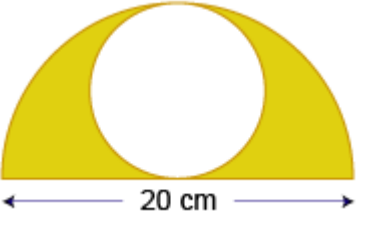### TASK 2   **Bits of circles**

Calculate the areas of these parts of a circle giving your answer correct to 1 decimal place.

1 Semicircle with *diameter* 10 cm.	2 A quadrant *radius* 8 cm.	3
		120° ←— 3 m —→ *Hint*: What fraction is this of the whole circle?

Composite shapes

Combine your knowledge of areas of different geometrical shapes to determine each shaded area correct to 2 decimal places.

1	**2**
3	**4**

TASK 4   **Find the radius**

For each problem below, give your answer correct to 1 decimal place. Use the back of the page for working space.

1 What is the radius of a circle with area 200 cm^2?

2 *Challenge:* Find the area of a circle that has a circumference of 50 cm.