1) Name the labelled parts of the circle below. [1]

Choose from the following words: segment, sector, chord, circumference, centre, radius, diameter, arc.

2) Estimate the area of the circle by counting unit squares [1]
3) Find the area of the circle pictured below, rounding your answer to 3 significant figures

\[ r = 7 \text{ cm} \]

4) Find the area of the circle pictured below, rounding your answer to 3 significant figures

\[ r = 8 \text{ cm} \]

5) The circumference of a circle is 80 cm. Find the area of the circle, rounding your answer to 3 significant figures.

6) The area of a circle is 40 cm\(^2\). Find the circumference of the circle, rounding your answer to 3 significant figures.
7) Find the radius of a circle which has an area of 34 cm$^2$ [1]

8) Find the diameter of a circle which has an area of 26 cm$^2$ [1]

9) Find the circumference of the circle pictured below, rounding your answer to 3 significant figures [1]

10) Find the circumference of the circle pictured below, rounding your answer to 3 significant figures [1]
11) Find the radius of a circle, where the circumference is:  
   29 cm

12) Find the diameter of a circle, where the circumference is:  
   41 cm
Solutions for the assessment Area and Circumference of Circle

1) 1 = sector, 2 = circumference, 3 = segment, 4 = diameter
   5 = arc, 6 = chord, 7 = radius, 8 = centre

2) Area = 13 cm^2

3) Area = 154 cm^2

4) Area = 50.3 cm^2

5) Area = 509 cm^2

6) Circumference = 22.4 cm

7) Radius = 3.29 cm

8) Diameter = 5.75 cm

9) Circumference = 31.4 cm

10) Circumference = 28.3 cm

11) Radius = 4.62 cm

12) Diameter = 13.1 cm