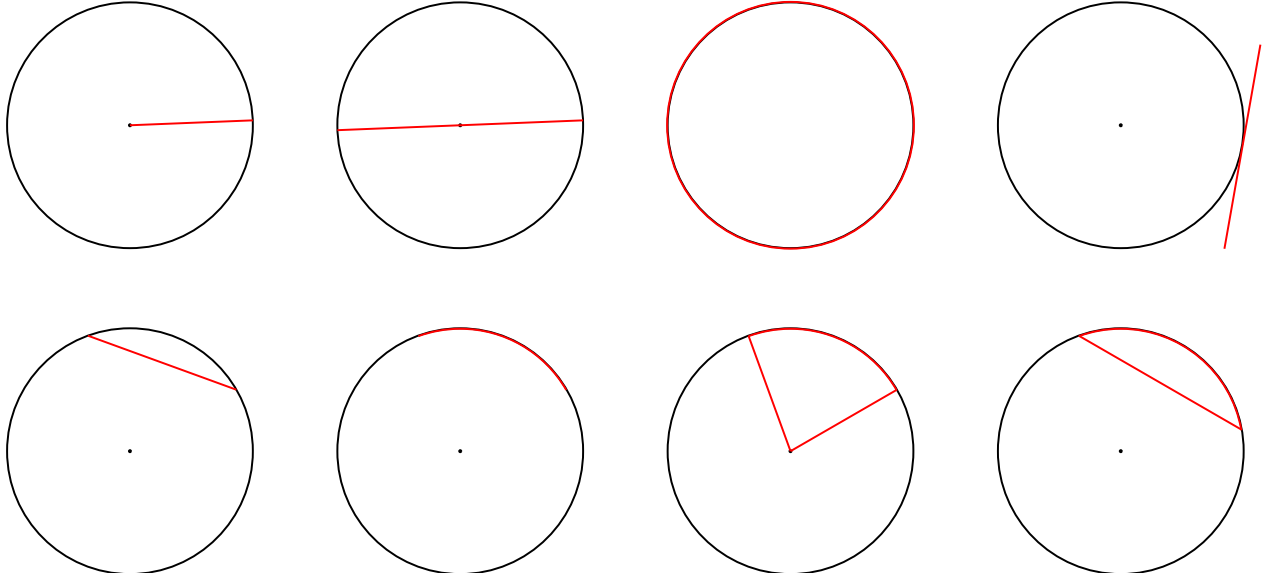


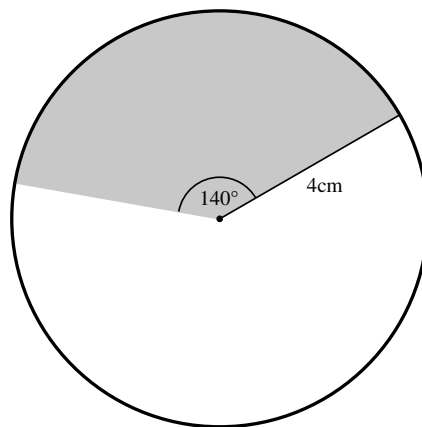
# Circles



**i. Name each of the following components of a circle highlighted in red**



**ii. Below is a diagram of a shaded portion of a circle. The circle has a radius of 4cm and the angle subtended by the shaded portion is  $140^\circ$ .**



- What is fraction of the whole circle is shaded?
- What is the area of the shaded portion? Leave your answer in terms of  $\pi$ .
- What is the length of the arc subtended by the  $140^\circ$  angle? Leave your answer in terms of  $\pi$ .

**iii. A circle has a diameter of 12cm. A sector of the circle has area  $\frac{3\pi}{4} \text{ cm}^2$ . What is the angle that subtends the sector?**