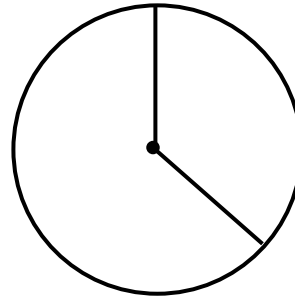
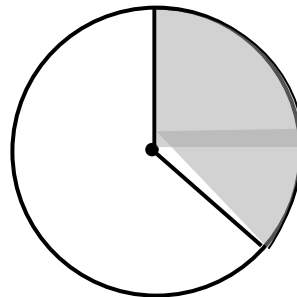


arc length



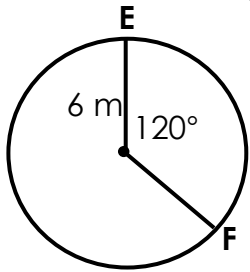
$$\frac{x^{\circ}}{360^{\circ}} \cdot 2\pi r$$

sector area

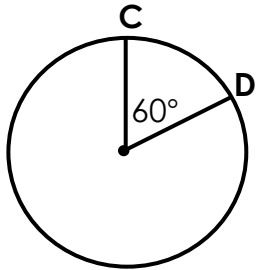


$$\frac{x^{\circ}}{360^{\circ}} \cdot \pi r^2$$

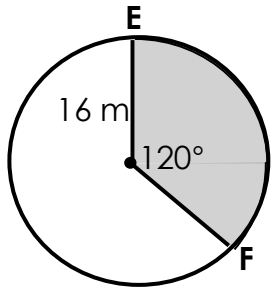
EX 1: Find the length of \widehat{EF} .



EX 2: The diameter is 24 cm. Find the length of \widehat{CD} .



EX 1: Calculate the sector area below.



EX 2: A circle has a radius of 12 in. Find the area of sector whose central angle is 120°.

EX 3: A circle has an arc whose measure is 80° and whose arc length is 276.46π in. What is the diameter of the circle?

EX 4: Find measure of central angle of an arc if its length is 43.98π and the radius is 18.

EX 3: The area of a circle is 225π in². Find area of sector whose central angle has a measure of 45°.

EX 4: Find the measure of the central angle of a sector if its sector area is 15.7π m² and circle radius of 6 m.