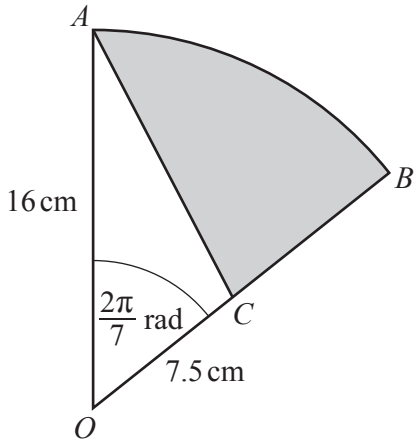
6



AOB is a sector of a circle with centre *O* and radius 16 cm. Angle *AOB* is $\frac{2\pi}{7}$ radians. The point *C* lies on *OB* such that *OC* is of length 7.5 cm and *AC* is a straight line.

(a) Find the perimeter of the shaded region. [3]

(b) Find the area of the shaded region. [3]

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