

2.

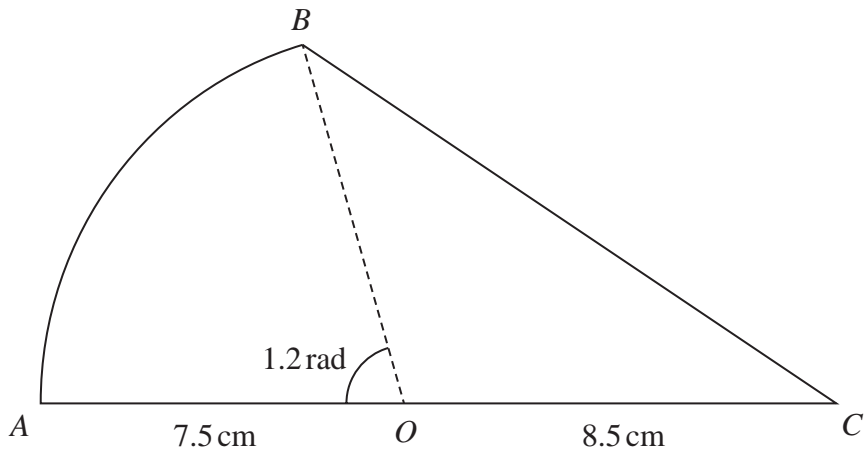


Figure 2

The shape $AOCBA$, shown in Figure 2, consists of a sector AOB of a circle centre O joined to a triangle BOC .

The points A , O and C lie on a straight line with $AO = 7.5$ cm and $OC = 8.5$ cm.

The size of angle AOB is 1.2 radians.

Find, in cm, the perimeter of the shape $AOCBA$, giving your answer to one decimal place.

(5)