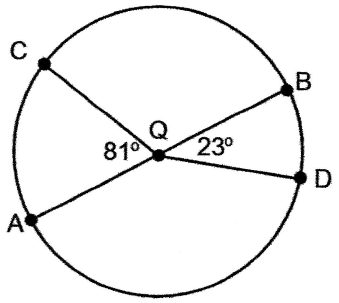
Bellwork Geo Tuesday, April 21, 2020

1. Use circle Q to answer the following questions. $\overline{AB}$ is a diameter and $QC = 9$ cm. Round to the nearest hundredth.

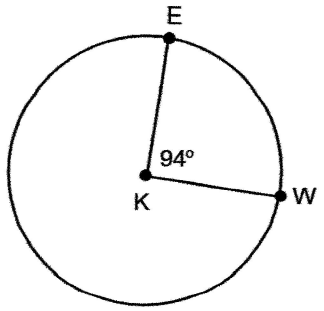


a. Find the circumference.

b. Find the length of $\overset{\frown}{DCA}$

2. The circumference of a circle is 200 in. Find the diameter to the nearest hundredth.

3. Use circle K to answer the following questions. Round to the nearest hundredth.



Find the length of the radius if the length of $\overset{\frown}{EW} = 32$ ft.

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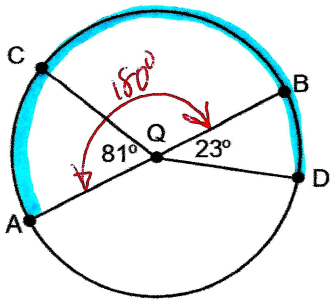


a. Find the circumference.

$\overline{QC}$ is a radius

$C = 2\pi r = 2\pi(9)$

$= 18\pi$

$C = 56.55$ cm

b. Find the length of $\overset{\frown}{DCA}$

$m\overset{\frown}{DCA} = 180° + 23° = 203°$

length of $\overset{\frown}{DCA}$: $\frac{203°}{360°} = \frac{x}{18\pi}$

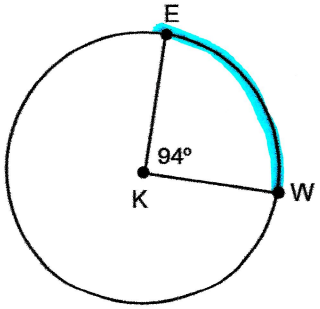
$= 31.89$ cm

2. The circumference of a circle is 200 in. Find the diameter to the nearest hundredth.

$C = \pi d$

$\frac{200}{\pi} = \frac{\pi d}{\pi} \Rightarrow d = 63.66$ in

3. Use circle K to answer the following questions. Round to the nearest hundredth.



Find the length of the radius if the length of $\overset{\frown}{EW} = 32$ ft.

$\frac{94°}{360°} = \frac{32 \text{ ft}}{\text{circumference}}$

cross-multiply to find circumference $= 122.55$

$C = 2\pi r$

$\frac{122.55}{2\pi} = \frac{2\pi r}{2\pi}$

$r = 19.50$ ft