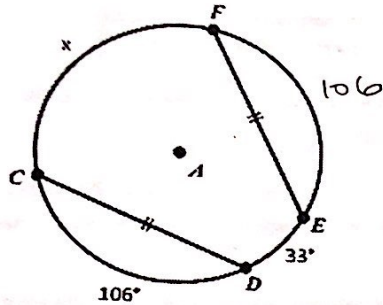


Geometry *WARM-UP*
Chord Properties

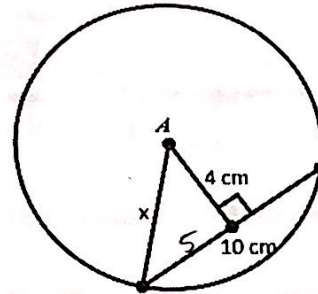
Name: Key
Date: _____

1. Find $m\widehat{CF} = \underline{115^\circ}$



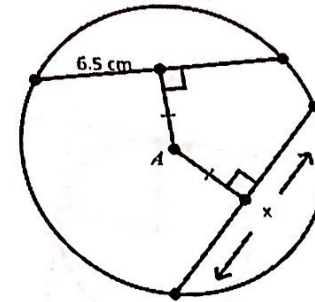
$$\begin{array}{r} 360 \\ - 212 \\ - 33 \\ \hline 115 \end{array}$$

2. Find $x = \underline{6.4}$ (2 dec.)



$$\begin{aligned} 4^2 + 5^2 &= x^2 \\ 16 + 25 &= x^2 \\ 41 &= x^2 \\ x &= \sqrt{41} = 6.4 \end{aligned}$$

3. Find $x = \underline{13}$



4. A chord is 15 cm from the center. The diameter is 70 cm. Find the length of the chord.

$$\begin{aligned} 15^2 + x^2 &= 35^2 \\ 225 + x^2 &= 1225 \\ \sqrt{x^2} &= \sqrt{1000} \\ x &= 31.6 \end{aligned}$$

Chord $2(31.6)$
 $= 63.2 \text{ cm}$

