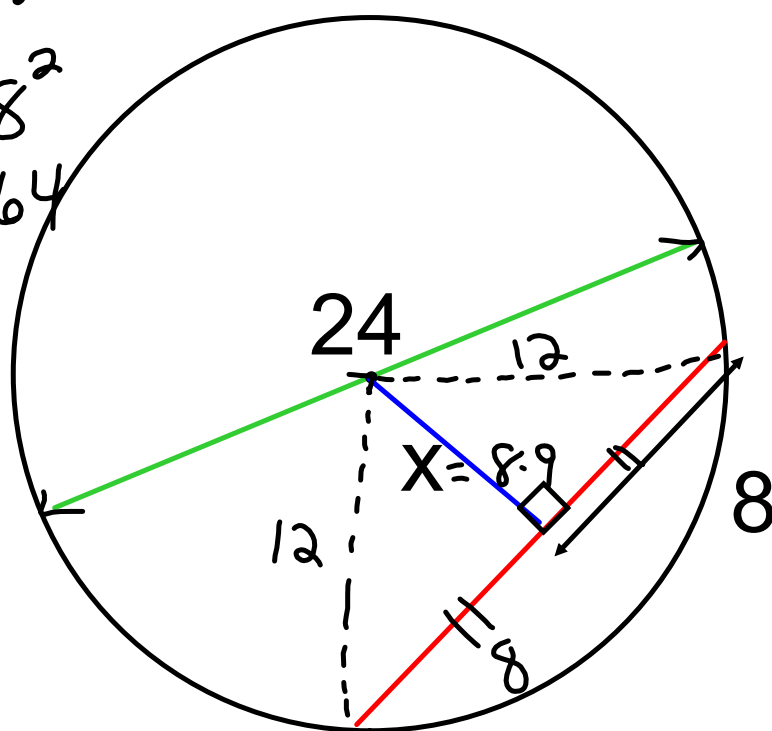


1. Find x

$$\begin{aligned}a^2 &= c^2 - b^2 \\ a^2 &= 12^2 - 8^2 \\ a^2 &= 144 - 64 \\ \sqrt{a^2} &= \sqrt{80} \\ a &= 8.9\end{aligned}$$



2. Calculate the diameter.

$$c^2 = a^2 + b^2$$

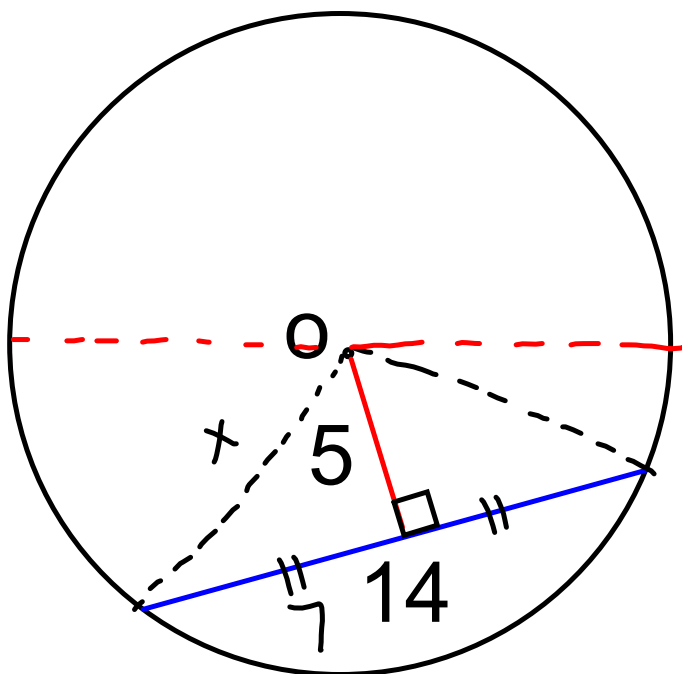
$$c^2 = 5^2 + 7^2$$

$$c^2 = 25 + 49$$

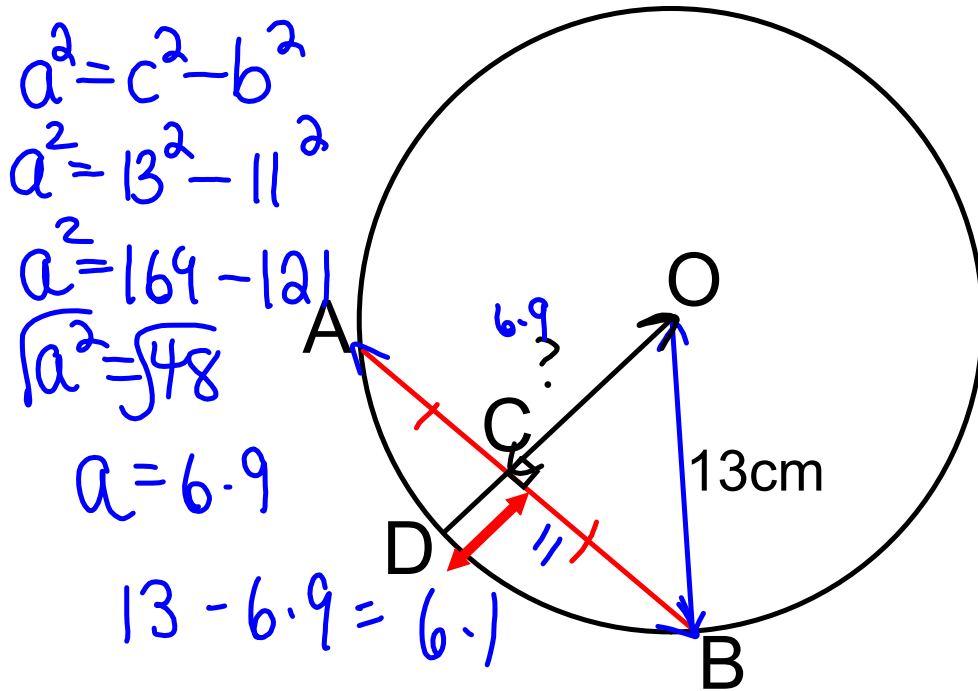
$$\sqrt{c^2} = \sqrt{74}$$

$$c = 8.6$$

$$\frac{8.6 \times 2}{\text{diameter}} = 17.2$$



3. Determine the length of CD
if O is the center, and AB is 22cm



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#3, 4, 5, 6, 7, 8, 10, 11