

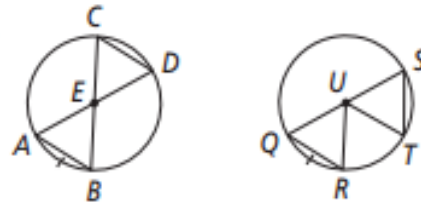
Practice 6.7: Chords & Arcs of Circles

Math 3

Name: _____

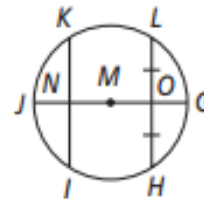
1. The circles at the right are congruent. Which conclusion can you draw?

- (A) $\overline{CD} \cong \overline{ST}$ (C) $\angle AEB \cong \angle QUR$
(B) $\angle CED \cong \angle SUT$ (D) $\widehat{BD} \cong \widehat{RT}$

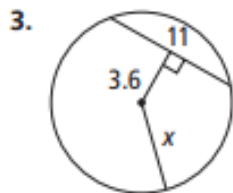


2. $\overline{JG}$ is the diameter of $\odot M$. Which conclusion *cannot* be drawn from the diagram?

- (F) $\overline{KN} \cong \overline{NI}$ (H) $\overline{JG} \perp \overline{HL}$
(G) $\widehat{LG} \cong \widehat{GH}$ (I) $\overline{GH} \cong \overline{GL}$

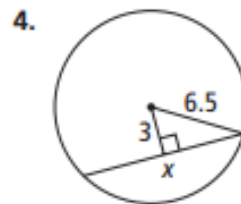


For Exercises 3 and 4, what is the value of x to the nearest tenth?



- (A) 4.2
(B) 6.6

- (C) 10.4
(D) 11.6

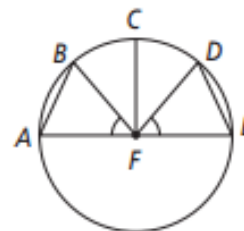


- (F) 3.6
(G) 5.8

- (H) 11.5
(I) 14.3

5. If $\angle AFB \cong \angle DFE$, what must be true?

- (A) $\widehat{AB} \cong \widehat{DE}$ (C) $\overline{CF} \perp \overline{AE}$
(B) $\widehat{BC} \cong \widehat{DE}$ (D) $\angle BFC \cong \angle DFC$



6. A student draws $\odot X$ with a diameter of 12 cm. Inside the circle she inscribes equilateral $\triangle ABC$ so that $\overline{AB}$, $\overline{BC}$, and $\overline{CA}$ are all chords of the circle. The diameter of $\odot X$ bisects $\overline{AB}$. The section of the diameter from the center of the circle to where it bisects $\overline{AB}$ is 3 cm. To the nearest whole number, what is the perimeter of the equilateral triangle inscribed in $\odot X$?