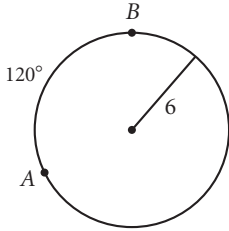


# Lesson 6.7 • Arc Length

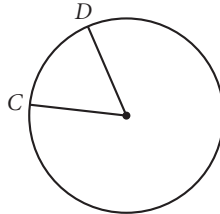
Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

In Exercises 1–10, leave your answers in terms of  $\pi$ .

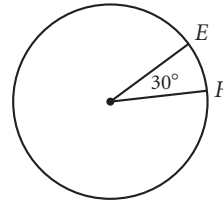
1. Length of  $\widehat{AB}$  = \_\_\_\_\_



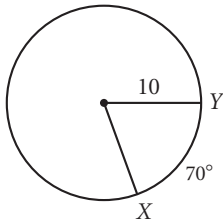
2. The circumference is  $24\pi$  and  $m\widehat{CD} = 60^\circ$ . Length of  $\widehat{CD}$  = \_\_\_\_\_



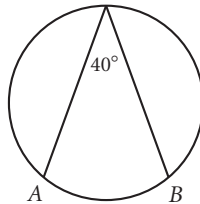
3. The length of  $\widehat{EF}$  is  $5\pi$ . Radius = \_\_\_\_\_



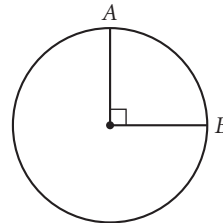
4. Length of  $\widehat{XY}$  = \_\_\_\_\_



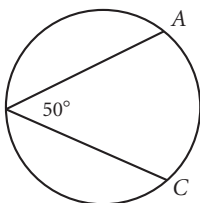
5. The radius is 20. Length of  $\widehat{AB}$  = \_\_\_\_\_



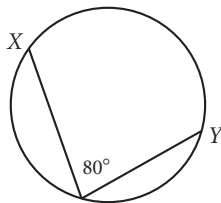
6. The circumference is  $25\pi$ . Length of  $\widehat{AB}$  = \_\_\_\_\_



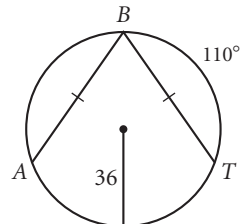
7. The diameter is 40. Length of  $\widehat{AC}$  = \_\_\_\_\_



8. The length of  $\widehat{XY}$  is  $14\pi$ . Diameter = \_\_\_\_\_



9. Length of  $\widehat{AB}$  = \_\_\_\_\_



10. A circle has an arc with measure  $80^\circ$  and length  $88\pi$ . What is the diameter of the circle?