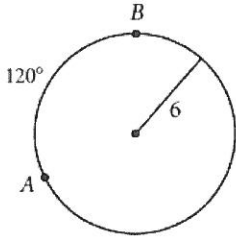
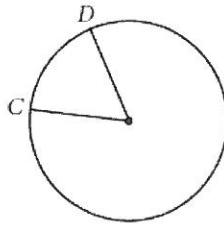


In Exercises 1–10, leave your answers in terms of π .

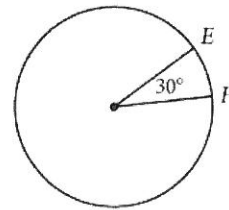
1. Length of \widehat{AB} = _____



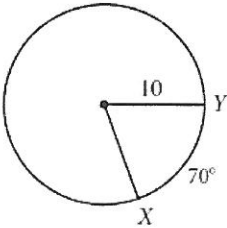
2. The circumference is 24π and $m\widehat{CD} = 60^\circ$. Length of \widehat{CD} = _____



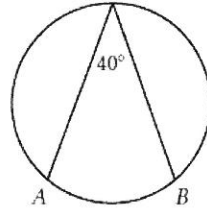
3. The length of \widehat{EF} is 5π . Radius = _____



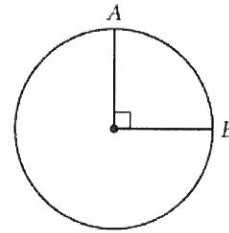
4. Length of \widehat{XY} = _____



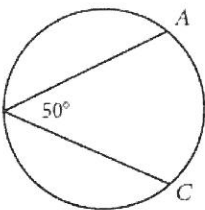
5. The radius is 20. Length of \widehat{AB} = _____



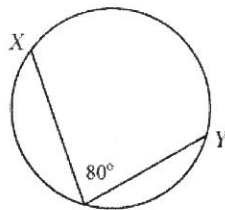
6. The circumference is 25π . Length of \widehat{AB} = _____



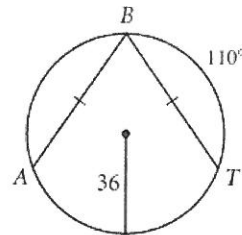
7. The diameter is 40. Length of \widehat{AC} = _____



8. The length of \widehat{XY} is 14π . Diameter = _____



9. Length of \widehat{AB} = _____



10. A circle has an arc with measure 80° and length 88π . What is the diameter of the circle?

$$1. \frac{120}{360} = \frac{a\pi}{12\pi} \quad \frac{30}{3} = \frac{12\pi}{3}$$

$$x = 4\pi$$

$$2. \frac{60}{360} = \frac{x}{24\pi} \quad \frac{60x}{6} = \frac{24\pi}{6}$$

$$x = 4\pi$$

$$3. \frac{180}{12360} = \frac{5\pi}{C\pi} \quad C = 60\pi = d\pi$$

$$d = 60 \quad | C = 30 |$$

$$4. \frac{70}{360} = \frac{x}{20\pi} \quad \frac{36x}{36} = \frac{140\pi}{36}$$

$$x = \frac{35\pi}{9}$$

$$5. \frac{80}{360} = \frac{x}{40\pi} \quad \frac{320\pi}{36} = \frac{36x}{36}$$

$$x = \frac{80\pi}{9}$$

$$6. \frac{1}{4} \cdot 25\pi =$$

$$\frac{25\pi}{4}$$

$$7. \frac{100}{360} = \frac{x}{40\pi} \quad \frac{4000\pi}{360} = \frac{360x}{360}$$

$$x = \frac{100\pi}{9}$$

$$8. \frac{160}{360} = \frac{14\pi}{C} \quad \frac{160C}{16} = \frac{504\pi}{16}$$

$$C = \frac{63\pi}{2} \quad | d = \frac{63}{2} |$$

$$9. \frac{110}{360} = \frac{x}{70\pi} \quad \frac{36x}{36} = \frac{798\pi}{36}$$

$$x = 22\pi$$

$$10. \frac{80}{360} = \frac{88\pi}{C} \quad 80C = 31680\pi$$

$$C = 396\pi$$

$$d = 396$$