

9-1 Circles and Arcs

Name: _____

Time Start: _____ Finish: _____

Total Time = _____

Figure 1

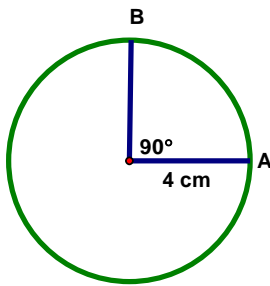


Figure 2

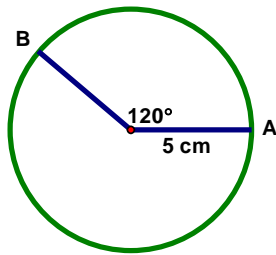


Figure 3

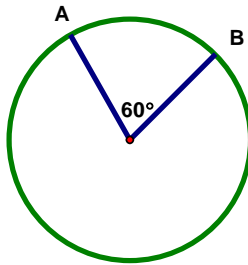


Figure 4

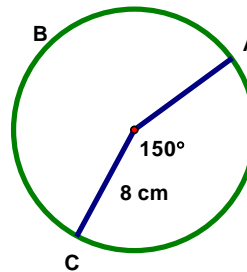


Figure 5

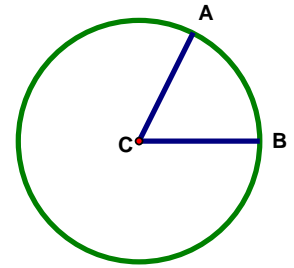


Figure 6

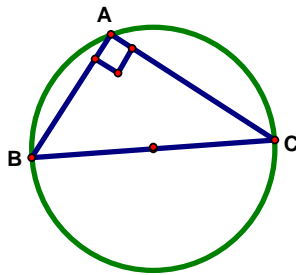


Figure 7

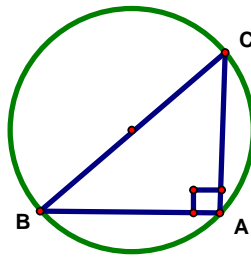


Figure 8

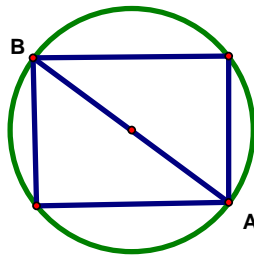


Figure 9

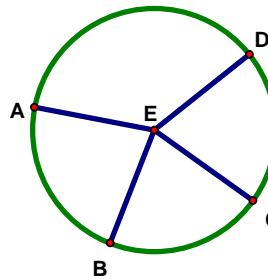
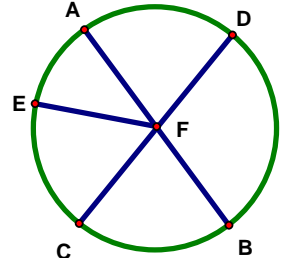


Figure 10



- _____ 1. What is the measurement of AB in Figure 1 above?
- _____ 2. What is the measurement of AB in Figure 2 above?
- _____ 3. If $AB = 5$ cm in Figure 3 above, what is the circumference of the circle?
- _____ 4. What is the measurement of major ABC in Figure 4 above?
- _____ 5. In Figure 5 above, $AB = 5$ cm while the circumference of the circle is 40 cm. What is the measurement of $\angle ACB$?
- _____ 6. In Figure 6, $AB = 3$ cm and $AC = 4$ cm. What is the **exact** circumference of the circle?
- _____ 7. In Figure 7, $AB = 5$ cm and $AC = 12$ cm. What is the **exact** circumference of the circle?
- _____ 8. In Figure 8, a square with a perimeter of 48 is inscribed in the circle. If \overline{AB} is the diameter, what is \overline{AB} 's length?
- _____ 9. In Figure 9, $\angle AED = 12x$, $\angle AEB = 8x$, $\angle CED = 8x$, and $\angle CEB = 4x$. What is the value of x ?
- _____ 10. In Figure 10, \overline{AB} and \overline{CD} are diameters of circle F . If $\angle CFE = 4x$, $\angle AFE = 2x$, and $\angle CFB = 3x$, what is the value of x ?

SAT Questions – All have videos

- _____ Trig 1-5 21. Which of the following is equal to $(7^8 \times 7^9)^{10}$?
- A. 7^{27} B. 7^{82} C. 7^{170} D. 49^{170} E. 49^{720}
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- _____ Trig 1-5 22. If a certain number is doubled and the result is increased by 7, the number obtained is 19. What is the original number?
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- _____ Trig 1-5 23. If the average (arithmetic mean) of x , $5x$, and $6x$ is 8, what is the value x ?
- A. 1 B. 2 C. 3 D. 4 E. 5
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- _____ Trig 1-5 24. If $4(x + 3) = 15$, then what is the value of $4x + 3$?