

# Arc Length-Sector Area

Name: Key

Wells Worksheet (W2)

Date: \_\_\_\_\_ Block: \_\_\_\_\_

1. Find the length of arc AB.



2. The diameter is 24 cm. Find the length of arc CD.



3. The length of arc EF is 15.7. Find the length of the radius.



4. Find the length of arc XY.



5. A circle has an arc whose measure is 80° and whose length is 276.46. What is the diameter of the circle?

$\frac{80}{360} = \frac{276.46}{\pi d}$  d = 396

6. A circle has a circumference whose length is 785. Find the length of an arc whose central angle is 90°.

$\frac{90}{360} = \frac{x}{785}$  x = 19.63

7. Find the measure of the central angle of an arc if its length is 43.98 and the radius is 18.

$\frac{x}{360} = \frac{43.98}{2\pi(18)}$  x = 140°

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8. Calculate the sector area.



$\frac{90}{360} = \frac{x}{\pi(12)^2}$

$\frac{135}{360} = \frac{x}{\pi(14)^2}$

$\frac{40}{360} = \frac{x}{\pi(10)^2}$

9. The area of a circle is 224π square inches. Find the area of the sector whose central angle is 45°.

$\frac{45}{360} = \frac{x}{224\pi}$

88.36 in<sup>2</sup>

10. The central angle of a sector is 60° and the area of the circle is 144π. What is the area of the sector?

$\frac{60}{360} = \frac{x}{144\pi}$

75.40 in<sup>2</sup>

11. A circle has a radius of 12. Find the area of the sector whose central angle is 120°.

$\frac{120}{360} = \frac{x}{\pi(12)^2}$

150.80 in<sup>2</sup>

12. Find the radius of a circle which has a sector area of 28.3 whose central angle is 90°.

$\frac{90}{360} = \frac{28.3}{\pi r^2}$

$r^2 = 36.03$

r = 6

13. The central angle of a sector is 72° and the sector has an area of 72. Find the radius.

$\frac{72}{360} = \frac{72}{\pi r^2}$

$r^2 = 24.99$

r = 5

14. Find the measure of the central angle of a sector if its area is 15.7 and the radius is 6.

$\frac{x}{360} = \frac{15.7}{\pi(6)^2}$

x = 49.97°  
≈ 50°

# Arc Length Geometry Answers

**Robert R. Redfield**

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