

Arc Length-Sector Area

Name: Key

Wells Worksheet (W2)

Date: _____

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1. Find the length of arc AB.



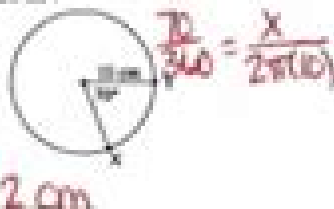
2. The diameter is 24 cm. Find the length of arc CD.



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 78.5. Find the length of an arc whose central angle is 90°.

$$\frac{90}{360} = \frac{x}{78.5}$$

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.



9. The area of a circle is 225π square inches. Find the area of the sector whose central angle is 45°.

$$\frac{45}{360} = \frac{x}{225\pi}$$

88.36 in²

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 in²

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 in²

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 = 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 = 5

14. Find the measure of the central angle of a sector if its area is 49.97 and the radius is 6.

$$\frac{x}{360} = \frac{49.97}{\pi(6)^2}$$

x = 49.97°
≈ 50°

Geometry Worksheet Arc Length Sector Area Segment Area Key

Sara Freeman

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular arc with a gradient effect positioned to the right of the bar's end.

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Key Maths GCSE David Baker, 2002-01-25 Developed for the AQA Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets Circle Properties and Theorems

Sara Freeman, 2004-09-01 This easy to use packet is chock full of stimulating activities that will jumpstart your students interest in geometry while providing practice with circle properties and theorems A variety of puzzles and games will challenge students to think creatively as they sharpen their geometry skills Each page begins with a clear explanation of the featured geometry topic providing extra review and reinforcement **Geometry Worksheets and Answer Keys**

Thinkwell, 2018 **Key to Geometry, Book 2: Circles**, 2012-09-01 Key to Geometry introduces students to a wide range of geometric discoveries as they do step by step constructions Using only a pencil compass and straightedge students begin by drawing lines bisecting angles and reproducing segments Later they do sophisticated constructions involving over a dozen steps When they finish students will have been introduced to 134 geometric terms and will be ready to tackle formal proofs

Includes Book 2 of Key to Geometry **Geometry Through the Circle** James Richard King, 1996 *Scott, Foresman*
Geometry: Worksheets, 1990

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