

Chapter 11 Measurement of Figures and Solids

Prerequisite Skills for the chapter "Measurement of Figures and Solids"

1. radius = 3 2. diameter = 6

3. $m\widehat{ADB} = 360^\circ - 70^\circ = 290^\circ$

4. $P = 2l + 2w$

$24 = 2(9) + 2w$

$24 = 18 + 2w$

$6 = 2w$

$3 = w$

The width is 3 centimeters.

5. $\frac{XY}{XT} = \frac{20^\circ}{12^\circ}$

$\frac{5}{XT} = \frac{8}{12}$

$60 = 8XT$

$\frac{15}{2} = XT$ or $7.5 = XT$

6. Because the ratio of the perimeters of the triangles is equal to the ratio of the side lengths of the triangles, the ratio is $\frac{8}{12} = \frac{3}{9}$.

7. $BC = x$ and $AC = x\sqrt{3}$ in a 30° - 60° - 90° triangle. Because $BC = 5$, $AC = 5\sqrt{3}$.

8. $BC = AC$ in a 45° - 45° - 90° triangle.

Because $BC = 8$, $AC = 8$.

9. $\cos A = \frac{AB}{AC}$

$\cos 60^\circ = \frac{AB}{13}$

$13 \cos 60^\circ = AB$

$6.5 = AB$

Lesson 11.1 Circumference and Arc Length

Guided Practice for the lesson "Circumference and Arc Length"

1. Circle with diameter of 5 inches:

$C = \pi d = \pi(5) \approx 15.71$

The circumference is about 15.71 inches.

Circle with circumference of 17 feet: $C = \pi d$

$17 = \pi d$

$5.41 \approx d$

The diameter is about 5.41 feet.

2. Circumference: $C = \pi d = \pi(28) \approx 87.96$ in.

Distance traveled = Number of revolutions $\cdot$ circumference

$300 \text{ ft} = \text{Number of revolutions} \cdot 87.96 \text{ in.} \cdot \frac{1 \text{ ft}}{12 \text{ in.}}$

$300 \text{ ft} = \text{Number of revolutions} \cdot 7.33 \text{ ft}$

$68 \approx \text{Number of revolutions}$

The tire makes about 68 revolutions while traveling 300 feet.

3. Arc length of $\widehat{DQ}$ = $\frac{70^\circ}{360^\circ} \cdot \pi(9) \approx 5.89$ yards

4. $\frac{\text{Arc length of } \widehat{LH}}{c} = \frac{m\widehat{LH}}{360^\circ}$

$\frac{61.26 \text{ m}}{c} = \frac{270^\circ}{360^\circ}$

$\frac{61.26 \text{ m}}{c} = \frac{3}{4}$

$81.68 \text{ m} = c$

5. Arc length of $\widehat{EP}$ = $\frac{m\widehat{EP}}{360^\circ}$

$\frac{10.5 \text{ ft}}{2\pi r} = \frac{120^\circ}{360^\circ}$

$3780 = 300\pi r$

$4.01 \text{ ft} \approx r$

6. Distance = $2(84.39) + 2 \cdot \left(\frac{1}{2} \cdot 2\pi \cdot 44.02\right)$

Distance ≈ 445.4 meters

The runner on the blue path travels about 445.4 meters.

Exercises for the lesson "Circumference and Arc Length"

Skill Practice

1. $\frac{\text{Arc length of } \widehat{AB}}{2\pi r} = \frac{m\widehat{AB}}{360^\circ}$

2. The arc measure is the number degrees of a circle the arc is bounded by. The arc length is the part of the circumference of the circle that the arc occupies.

3. $C = 2\pi r = 2\pi(6) \approx 37.70$ in.

4. $C = \pi d = \pi(17) \approx 53.41$ cm

5. $C = 2\pi r$

$63 = 2\pi r$

$10.03 \text{ ft} \approx r$

7. $C = 2\pi r$

$28\pi = 2\pi r$

$14 \text{ m} = r$

8. $C = \pi d = \pi(14) \approx 43.98$ units

9. $C = 2\pi r = 2\pi(3 + 2) = 2\pi(5) \approx 31.42$ units

10. $C = \pi d = \pi(10 + 2) = \pi(12) \approx 37.70$ units

11. Arc length of $\widehat{AB} = \frac{m\widehat{AB}}{360^\circ} \cdot 2\pi r = \frac{40^\circ}{360^\circ} \cdot 2\pi(6)$

$\approx 4.19 \text{ m}$

12. Arc length of $\widehat{AB} = \frac{m\widehat{AB}}{360^\circ} \cdot 2\pi r = \frac{120^\circ}{360^\circ} \cdot 2\pi(14)$

$\approx 29.32 \text{ cm}$

13. Arc length of $\widehat{AB} = \frac{m\widehat{AB}}{360^\circ} \cdot \pi d = \frac{40^\circ}{360^\circ} \cdot \pi(8) \approx 2.79 \text{ ft}$

14. Two arcs from different circles have the same length only if the circles have the same circumference.

15. $m\widehat{QAS} = 360^\circ = m\widehat{QAS}$

$m\widehat{QAS} = 360^\circ - 60^\circ$

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Anthony S. Fauci



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