Chapter 11 Measurement of Figures and Solids

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

1. radius $= 3$ 2. diameter $= 6$

3. $m\overset{\frown}{ADB} = 360° - 70° - 290°$

4. $P = 2\ell + 2w$
$24 = 2(9) + 2w$
$24 = 18 + 2w$
$6 = 2w$
$3 = w$
The width is 3 centimeters.

5. $\frac{GH}{XY} = \frac{FH}{YZ}$
$\frac{5}{XY} = \frac{8}{12}$
$60 = 8XY$
$\frac{15}{2} = XY$ or $7.5 = XY$

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 $\frac{8}{12} = \frac{2}{3}$.

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. $\cos A = \frac{AC}{AB}$
$\cos 60° = \frac{AC}{13}$
$13 \cos 60° = AC$
$6.5 = AC$

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 • 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 $\overset{\frown}{DQ} = \frac{75°}{360°} \cdot \pi(9) \approx 5.89$ yards

4. $\frac{\text{Arc length of } \overset{\frown}{DM}}{c} = \frac{m\overset{\frown}{DM}}{360°}$
$\frac{61.26 \text{ m}}{c} = \frac{270°}{360°}$
$\frac{61.26 \text{ m}}{c} = \frac{3}{4}$
$81.68 \text{ m} = c$

5. Arc length of $\overset{\frown}{EF} = \frac{m\overset{\frown}{EF}}{360°}$
$\frac{10.5 \text{ ft}}{2\pi r} = \frac{120°}{360°}$
$3780 = 360\pi r$
$4.01 \text{ ft} = r$

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. $\frac{\text{Arc length of } \overset{\frown}{AB}}{2\pi r} = \frac{m\overset{\frown}{AB}}{360°}$

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. $C = 2\pi r$
$63 = 2\pi r$
$10.03 \text{ ft} \approx r$

6. $C = \pi d = \pi(5) = 5\pi$ in.

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. $C = \pi d = \pi(10 + 2) = \pi(5) \approx 15.71$ units

11. Arc length of $\overset{\frown}{AB} = \frac{m\overset{\frown}{AB}}{360°} \cdot 2\pi r = \frac{40°}{360°} \cdot 2\pi(6)$
≈ 4.19 m

12. Arc length of $\overset{\frown}{AB} = \frac{m\overset{\frown}{AB}}{360°} \cdot 2\pi r = \frac{120°}{360°} \cdot 2\pi(14)$
≈ 29.32 cm

13. Arc length of $\overset{\frown}{AB} = \frac{m\overset{\frown}{AB}}{360°} \cdot \pi d = \frac{45°}{360°} \cdot \pi(8) \approx 3.14$ ft

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

15. $m\overset{\frown}{QRS} = 360° - m\overset{\frown}{QS}$
$m\overset{\frown}{QRS} = 360° - 60°$

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Yan Bai

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