

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

Houghton Mifflin Geometry Chapter11 Answer Key

J Ma



Houghton Mifflin Geometry Chapter11 Answer Key:

Houghton Mifflin Geometry Chapter 11 Answer Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year.

The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed.

Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a brilliant and gripping novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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