

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 $\widehat{DQ}$ = $\frac{70^\circ}{360^\circ} \cdot \pi(9) \approx 5.49$ 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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VM Jensen



Houghton Mifflin Ch 7 Form C Algebra:

Houghton Mifflin Math Central ,1998 Houghton Mifflin Math Central: Student text ,1998 *Houghton Mifflin Math Central* Laurie Boswell,Patsy F. Kanter,1999 Elementary Algebra, with Basic Mathematics Richard N. Aufmann,1989

Math Central, Grade 5 Assessment Books Hmh,1997 **Basic College Mathematics** Richard N. Aufmann,Vernon C. Barker,Joanne S. Lockwood,1999 **Certain Number-Theoretic Episodes In Algebra, Second Edition R**

Sivaramakrishnan,2019-03-19 The book attempts to point out the interconnections between number theory and algebra with a view to making a student understand certain basic concepts in the two areas forming the subject matter of the book

CliffsNotes TExES Math 4-8 (115) and Math 7-12 (235) Sandra Luna McCune,2020-09-15 CliffsNotes TExES Math 4 8 115 and Math 7 12 235 is the perfect way to study for Texas middle school and high school math teacher certification tests Becoming a certified middle school math teacher and high school math teacher in Texas means first passing the TExES Math 4 8 115 teacher certification test for middle school teachers or the TExES Math 7 12 235 teacher certification test for high school teachers This professional teacher certification test is required for all teachers who want to teach math in a Texas middle or high school Covering each test s six domains and individual competencies with in depth subject reviews this test prep book also includes two model practice tests with answers and explanations for the Math 4 8 and two model practice tests with answers and explanations for the Math 7 12 Answer explanations detail why correct answers are correct as well as what makes incorrect answer choices incorrect *Digital Tools for Knowledge Construction in the Elementary Grades*

Michael Blocher,2016-08-08 Digital Tools for Knowledge Construction in the Elementary Grades was written for teachers who wish to gain a better understanding of how to integrate technology into their classrooms from a student centered perspective When done so students must take more control of and therefore more responsibility for their learning This book is divided into two sections Part I provides a foundation and rational for student centered learning instructional strategies for technology integration and using this approach to help teachers assess their students in meeting academic standards Part II includes foundational technology information and appropriate use of digital tools for communication collaboration research publishing and even games for learning This text provides methods and examples of technology integration that supports students achievement of national academic standards by using today s digital tools for communication collaboration research and publishing When students learn how to become knowledgeable global digital citizens they gain the requisite skills for tomorrow s creative thinkers problem solvers and decision makers **NPTI's Fundamentals of Fitness and Personal**

Training Henriques, Tim,2014-08-13 This text makes the principles and theories of fitness and personal training accessible for all readers helping them understand how the body works and responds to exercise and how to create exercise programs that help clients accomplish their fitness goals

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