

11.5

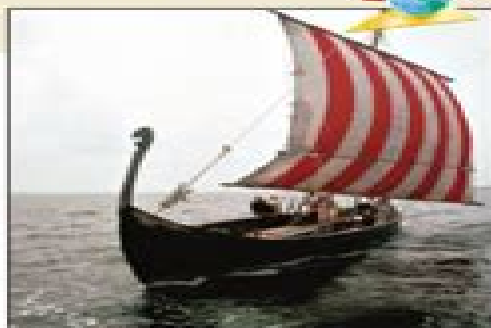
What you should learn

GOAL 1 Find the area of a circle and a sector of a circle.

GOAL 2 Use areas of circles and sectors to solve real-life problems, such as finding the area of a boomerang in Example 6.

Why you should learn it

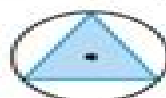
▼ To solve real-life problems, such as finding the area of portions of tree trunks that are used to build Viking ships in Exs. 38 and 39.



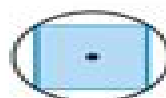
Areas of Circles and Sectors

GOAL 1 AREAS OF CIRCLES AND SECTORS

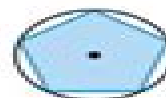
The diagrams below show regular polygons inscribed in circles with radius r . Exercise 42 on page 697 demonstrates that as the number of sides increases, the area of the polygon approaches the value πr^2 .



3-gon



4-gon



5-gon

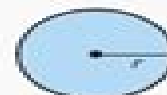


6-gon

THEOREM

THEOREM 11.7 Area of a Circle

The area of a circle is π times the square of the radius, or $A = \pi r^2$.

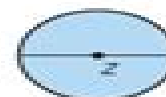


EXAMPLE 1 Using the Area of a Circle

a. Find the area of $\odot P$.



b. Find the diameter of $\odot Z$.



Area of $\odot Z = 96 \text{ cm}^2$

SOLUTION

a. Use $r = 8$ in the area formula.

$$\begin{aligned} A &= \pi r^2 \\ &= \pi \cdot 8^2 \\ &= 64\pi \\ &\approx 201.06 \end{aligned}$$

► So, the area is 64π , or about 201.06, square inches.

b. The diameter is twice the radius.

$$\begin{aligned} A &= \pi r^2 \\ 96 &= \pi r^2 \\ \frac{96}{\pi} &= r^2 \\ 30.56 &\approx r^2 \\ 5.53 &\approx r \end{aligned}$$

Find the square roots.

► The diameter of the circle is about $2(5.53)$, or about 11.06, centimeters.

10 7 Enrichment Area Of Circles And Sectors Answers

AW Chickering



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Me n Mine CPM Maths Combo Class 10 Surender Verma, The series is a comprehensive package containing chapter wise and topic wise guidelines with a vast variety of solved and unsolved exercises to help students practice what they have learnt These books are strictly in accordance with the latest CBSE syllabus and covers all aspects of formative and summative assessments with the latest marking schemes as laid down by CBSE **Essential Mathematics for the Australian Curriculum Year 8** David Greenwood, Bryn Humberstone, Justin Robinson, Jenny Goodman, Jenny Vaughan, Franca Frank, 2011-02-04 Essential Mathematics for the Australian Curriculum provides an authoritative and practical interpretation of all content strands sub strands and content descriptions **Instrumental Enrichment Vocabulary Standards-Driven U.S.A. Level 1 First Edition Authentic Content Standards Academic and Rich Cognitive Student Vocabulary Interaction** Nathaniel Rock, 2006-02 This text seeks to combine math content standards vocabulary with the non content cognitive method developed by Dr Reuven Feuerstein to make instrumental enrichment even more attractive to current day educators Education Teaching **Geometry** Nichols, 1991 A high school textbook presenting the fundamentals of geometry The Mathematical Gazette , 1989 *Scott Foresman-Addison Wesley Middle School Math* , 2002 **Resources in Education** , 2001 Cumulated Index Medicus , 1992 *New York Magazine* , 1986-01-13 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **Working Mother** , 2000-10 The magazine that helps career moms balance their personal and professional lives **Working Mother** , 2003-10 The magazine that helps career moms balance their personal and professional lives *Cincinnati Magazine* , 2001-08 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **Working Mother** , 2000-10 The magazine that helps career moms balance their personal and professional lives *Everyday Mathematics* , 2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific **Working Mother** , 2003-10 The magazine that helps career moms balance their personal and professional lives *Government Reports Announcements & Index* , 1993-12 *Report* , 1982 *Transdex Index* , 1991 An index to translations issued by the United States Joint Publications Research Service JPRS **JPRS Report** , 1989 Resources in Education , 1992

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Table of Contents 10 7 Enrichment Area Of Circles And Sectors Answers

1. Understanding the eBook 10 7 Enrichment Area Of Circles And Sectors Answers
 - The Rise of Digital Reading 10 7 Enrichment Area Of Circles And Sectors Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying 10 7 Enrichment Area Of Circles And Sectors Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 10 7 Enrichment Area Of Circles And Sectors Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from 10 7 Enrichment Area Of Circles And Sectors Answers
 - Personalized Recommendations
 - 10 7 Enrichment Area Of Circles And Sectors Answers User Reviews and Ratings
 - 10 7 Enrichment Area Of Circles And Sectors Answers and Bestseller Lists
5. Accessing 10 7 Enrichment Area Of Circles And Sectors Answers Free and Paid eBooks
 - 10 7 Enrichment Area Of Circles And Sectors Answers Public Domain eBooks
 - 10 7 Enrichment Area Of Circles And Sectors Answers eBook Subscription Services
 - 10 7 Enrichment Area Of Circles And Sectors Answers Budget-Friendly Options
6. Navigating 10 7 Enrichment Area Of Circles And Sectors Answers eBook Formats

- ePub, PDF, MOBI, and More
 - 10 7 Enrichment Area Of Circles And Sectors Answers Compatibility with Devices
 - 10 7 Enrichment Area Of Circles And Sectors Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 10 7 Enrichment Area Of Circles And Sectors Answers
 - Highlighting and Note-Taking 10 7 Enrichment Area Of Circles And Sectors Answers
 - Interactive Elements 10 7 Enrichment Area Of Circles And Sectors Answers
 8. Staying Engaged with 10 7 Enrichment Area Of Circles And Sectors Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 10 7 Enrichment Area Of Circles And Sectors Answers
 9. Balancing eBooks and Physical Books 10 7 Enrichment Area Of Circles And Sectors Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 10 7 Enrichment Area Of Circles And Sectors Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 10 7 Enrichment Area Of Circles And Sectors Answers
 - Setting Reading Goals 10 7 Enrichment Area Of Circles And Sectors Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 10 7 Enrichment Area Of Circles And Sectors Answers
 - Fact-Checking eBook Content of 10 7 Enrichment Area Of Circles And Sectors Answers
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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