

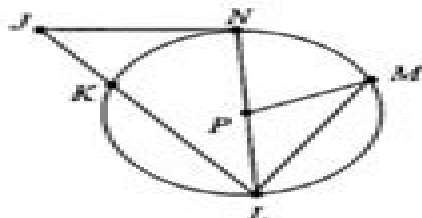
# Unit 10 Test Study Guide (Circles)

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

## Topic 1: Parts of Circles

1. Using the diagram below, give an example of each circle part.



- a. Center: P  
 \* b. Radius: PM  
 c. Diameter: NL  
 d. Chord: ML  
 e. Secant: JL  
 f. Tangent: JN  
 \* g. Central Angle: ∠MPL  
 \* h. Inscribed Angle: ∠NLK  
 \* i. Minor Arc: NK  
 \* j. Major Arc: MLN  
 \* k. Semicircle: NKL  
 \* Answers may vary

## Topic 2: Area & Circumference

2. Find the area and circumference of the circle to the right. ( $r = 8.3$ )

$$A = \pi (8.3)^2$$

$$= 68.81\pi$$

$$\approx \boxed{216.42 \text{ m}^2}$$

$$C = 16.6\pi$$

$$\approx \boxed{52.15 \text{ m}}$$



3. Find the radius of a circle with a circumference of 106.81 centimeters.

$$\frac{106.81}{2\pi} = \frac{2\pi r}{2\pi}$$

$$\boxed{r = 17 \text{ cm}}$$

4. Find the diameter of a circle with an area of 95.03 square feet.

$$\frac{95.03}{\pi} = \frac{\pi r^2}{\pi}$$

$$30.25 = r^2$$

$$r = 5.5$$

$$\boxed{d = 11 \text{ ft}}$$

5. Find the circumference of a circle with an area of 254.47 square inches.

$$\frac{254.47}{\pi} = \frac{\pi r^2}{\pi}$$

$$81 = r^2$$

$$r = 9$$

$$C = 18\pi$$

$$\approx \boxed{56.55 \text{ in}}$$

6. Find the area of a circle with a circumference of 30π meters.

$$\frac{30\pi}{2\pi} = \frac{2\pi r}{2\pi}$$

$$15 = r$$

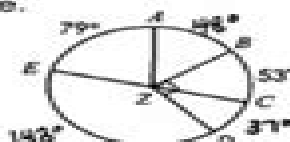
$$A = \pi (15)^2$$

$$= 225\pi$$

$$\approx \boxed{706.86 \text{ m}^2}$$

## Topic 3: Central Angles

7. Find each arc measure.



- a)  $m\widehat{CD} = 37^\circ$   
 b)  $m\widehat{AB} = 70^\circ$   
 c)  $m\widehat{ED} = 143^\circ$   
 d)  $m\widehat{EB} = 127^\circ$   
 e)  $m\widehat{BDE} = 233^\circ$   
 f)  $m\widehat{DEC} = 323^\circ$

# Answer Key Unit 13 Circles Study Guide

**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a thick arc, positioned to the right of the 'Lei Shi' text.

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## **Table of Contents Answer Key Unit 13 Circles Study Guide**

1. Understanding the eBook Answer Key Unit 13 Circles Study Guide
  - The Rise of Digital Reading Answer Key Unit 13 Circles Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Answer Key Unit 13 Circles Study Guide
  - 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 Answer Key Unit 13 Circles Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answer Key Unit 13 Circles Study Guide
  - Personalized Recommendations
  - Answer Key Unit 13 Circles Study Guide User Reviews and Ratings
  - Answer Key Unit 13 Circles Study Guide and Bestseller Lists
5. Accessing Answer Key Unit 13 Circles Study Guide Free and Paid eBooks
  - Answer Key Unit 13 Circles Study Guide Public Domain eBooks
  - Answer Key Unit 13 Circles Study Guide eBook Subscription Services
  - Answer Key Unit 13 Circles Study Guide Budget-Friendly Options

6. Navigating Answer Key Unit 13 Circles Study Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Answer Key Unit 13 Circles Study Guide Compatibility with Devices
  - Answer Key Unit 13 Circles Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answer Key Unit 13 Circles Study Guide
  - Highlighting and Note-Taking Answer Key Unit 13 Circles Study Guide
  - Interactive Elements Answer Key Unit 13 Circles Study Guide
8. Staying Engaged with Answer Key Unit 13 Circles Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answer Key Unit 13 Circles Study Guide
9. Balancing eBooks and Physical Books Answer Key Unit 13 Circles Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answer Key Unit 13 Circles Study Guide
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Answer Key Unit 13 Circles Study Guide
  - Setting Reading Goals Answer Key Unit 13 Circles Study Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer Key Unit 13 Circles Study Guide
  - Fact-Checking eBook Content of Answer Key Unit 13 Circles Study Guide
  - 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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