

## 9.4 Multiple Choice (& 9.3 Rev)

## Example 1

## Guided Practice

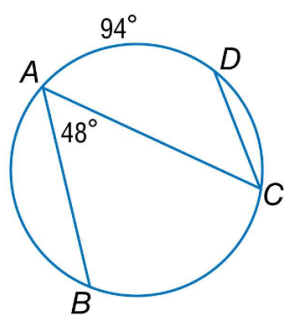
A. Find  $m\angle C$ .

A. 47

B. 54

C. 94

D. 188



## Example 1

## Guided Practice

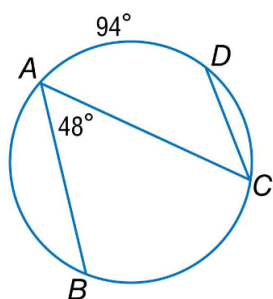
B. Find  $m\widehat{BC}$ .

A. 47

B. 64

C. 94

D. 96



## 9.4 Mult Choice Geo

### Example 2

### Guided Practice

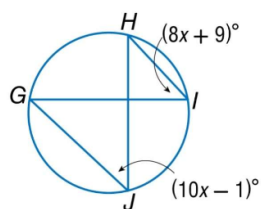
**ALGEBRA** Find  $m\angle I$ .

A. 4

B. 25

C. 41

D. 49



## 9.4 Mult Choice Geo

### Example 3

### Guided Practice

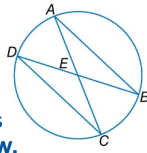
Write a two-column proof.

Given:  $\widehat{AB} \cong \widehat{CD}$

Prove:  $\triangle ABE \cong \triangle DCE$

Select the appropriate reason that goes in the blank to complete the proof below.

Proof:



Statements	Reasons
$\widehat{AB} \cong \widehat{CD}$ $\overline{AB} \cong \overline{DC}$	1. Given
$\angle D$ intercepts $\widehat{BC}$ and $\angle A$ intercepts $\widehat{BC}$ .	2. If minor arcs are congruent, then corresponding chords are congruent.
$\angle D \cong \angle A$	3. Definition of intercepted arc
$\angle DEC \cong \angle BEA$	4. Inscribed angles of the same arc are congruent.
$\triangle DCE \cong \triangle ABE$	5. Vertical angles are congruent.
	6. _____

A. SSS Congruence Theorem

B. AAS Congruence Theorem

C. Definition of congruent triangles

D. Definition of congruent arcs

## Example 4

## Guided Practice

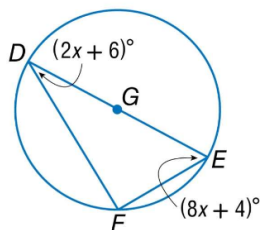
**ALGEBRA** Find  $m\angle D$ .

A. 8

B. 16

C. 22

D. 28



## Real-World Example 5

## Guided Practice

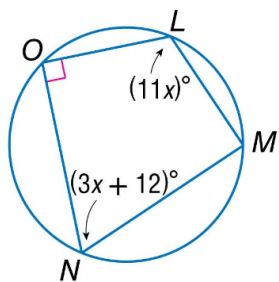
**INSIGNIAS** An insignia is an emblem that signifies rank, achievement, membership, and so on. The insignia shown is a quadrilateral inscribed in a circle. Find  $m\angle N$ .

A. 48

B. 36

C. 32

D. 28



## 5-Minute Check

Over Lesson 9-3

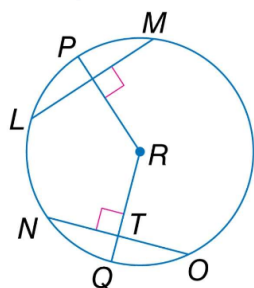
- 1 The radius of  $\odot R$  is 35,  $m\widehat{LM} = 80$ ,  $LM = 45$ , and  $\overline{LM} \cong \overline{NO}$ . Find  $m\widehat{NO}$ .

A. 60

B. 70

C. 80

D. 90





## 5-Minute Check

Over Lesson 9-3

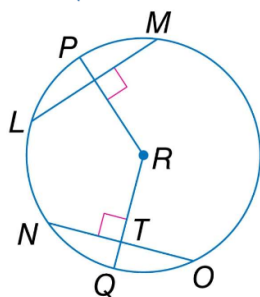
- 2 The radius of  $\odot R$  is 35,  $m\widehat{LM} = 80$ ,  $LM = 45$ , and  $\overline{LM} \cong \overline{NO}$ . Find  $m\widehat{NQ}$ .

A. 40

B. 45

C. 50

D. 55



## 5-Minute Check

Over Lesson 9-3

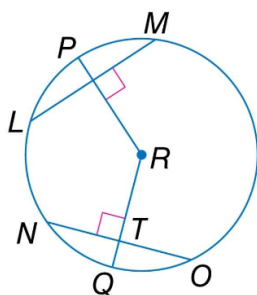
- 3 The radius of  $\odot R$  is 35,  $m\widehat{LM} = 80$ ,  $LM = 45$ , and  $\overline{LM} \cong \overline{NO}$ . Find  $NO$ .

A. 40

B. 45

C. 50

D. 55



## 5-Minute Check

Over Lesson 9-3

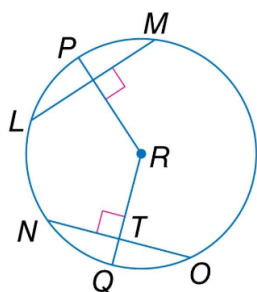
- 4 The radius of  $\odot R$  is 35,  $m\widehat{LM} = 80$ ,  $LM = 45$ , and  $\overline{LM} \cong \overline{NO}$ . Find  $NT$ .

A. 40

B. 30

C. 25

D. 22.5



## 5-Minute Check

Over Lesson 9-3

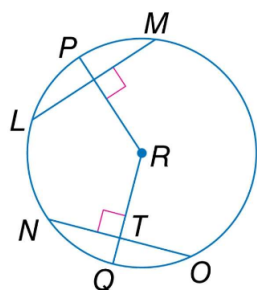
- 5 The radius of  $\odot R$  is 35,  $m\widehat{LM} = 80$ ,  $LM = 45$ , and  $\overline{LM} \cong \overline{NO}$ . Find  $RT$ .

A. 24.6

B. 26.8

C. 28.4

D. 30.2



## 5-Minute Check

Over Lesson 9-3

- 6 In  $\odot J$ , radius  $\overline{JK}$  intersects chord  $\overline{NM}$  at point  $P$  so that  $\overline{MP} \cong \overline{PN}$ . Which statement is true?
- A.  $\overline{JK} \cong \overline{NM}$
  - B.  $\overline{JK} \perp \overline{NM}$
  - C.  $\overline{JK} \parallel \overline{NM}$
  - D.  $\overline{PM}$  is a radius.

TOC 9.4 Inscribed Angles

EVEN  
PAGE

EQ: Can you find measures of inscribed angles?

Write 3  
Questions  
for this  
section on  
the left page

1. How are you doing?

Write answer next to the Summary

- 1: I don't understand the material.
- 2: I understand a little.
- 3: I understand this material.
- 4: I could teach this to someone.

Summary: At least 3 sentences...

Write this now.