AS AS AS AS AS B B B B B B B B
AS P R R R R R R R R
Side-Angle-Side ee sides of another gure with four kercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $H \cong \overline{JI}$ and $H \cong \overline{JI}$ and $H \cong \overline{JI}$ and
Side-Angle-Side ee sides of t. e are another gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $H \cong \overline{JI}$ and $H \cong \overline{JI}$ and
Side-Angle-Side ee sides of t. e are another gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $U \cong \Delta UH$ by
Side-Angle-Side ee sides of t. e are another gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $U \cong \Delta UH$ by
ee sides of t. e are another gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $U \cong \triangle UH$ by
e are another gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $H \cong \overline{A}$ and
gure with four xercises 6 H in two angles and that $\overline{GH} \cong \overline{JI}$ and $H \cong \overline{H} \cong \overline{JI}$
angles and that $\overline{GH} \cong \overline{JI}$ and $\overline{II} \cong \wedge \overline{IIH}$ by
$i = \Box i i i i i j y \$
By the Reflexive Property
∠ABE ≅ ∠DBC, SAS
$ \frac{\overline{BA}}{\overline{BE}} \cong \overline{BD}, $ $ \overline{BE} \cong \overline{BC} $
Reasons
n.

Original content Copyright © by Holt McDougal. Additions and changes to the original content are the responsibility of the instructor.

7. C

Reading Strategies

- ∠O does because they both have two arcs.
- 2. It is side \overline{NO} because both sides have three tick marks.
- 3. ∠OMN 4. ∠N
- 5. \overline{NO} 6. \overline{OM}
- 7. $\triangle MNP \cong \triangle TRS$
- 8. Corresponding angles of congruent triangles have the same measure, and the order of the letters indicates which angles are congruent.

LESSON 4-4

Practice A

1. ∠ <i>P</i>	2. ∠R
3. ∠Q	4. SSS
5. SAS	6. ∠G ; ∠I ; SAS

7. JI ; HI ; JH ; SSS

8.

Statements	Reasons
1. a. $\overline{BA} \cong \overline{BD}, \overline{BE} \cong \overline{BC}$	1. Given
2. b. ∠ <i>ABE</i> ≅ ∠ <i>DBC</i>	2. Vert. 🖽 Thm.
3. <i>△ABE</i> ≅ <i>△DBC</i>	3. c. SAS

Practice B

1. neither	2. SAS
3. neither	4. SSS

- 5. 1.8 6. 17
- 7. Possible answer:

Statements	Reasons
1. C is the midpoint of \overline{AD} and \overline{BE} .	1. Given
2. <i>AC</i> = <i>CD</i> , <i>BC</i> = <i>CE</i>	2. Def. of mdpt.
3. $\overline{AC} \cong \overline{CD}$, $\overline{BC} \cong \overline{CE}$	3. Def. of ≅ segs.
4. ∠ACB ≅ ∠DCE	4. Vert. ∡ Thm.
5. $\triangle ABC \cong \triangle DEC$	5. SAS

Practice C

- 1. any side length
- 2. lengths of two adjacent sides
- 3. any angle measure and any side length
- 4. any angle measure and the lengths of two adjacent sides
- Yes; possible answer: The diagonal is the hypotenuse of an isosceles right triangle. The length of one side can be found by using the Pythagorean Theorem, and knowing one side is enough to draw a specific square.
- 6. 540 ft^2
- 7. Possible answer: It is given that $\overline{BA} \cong \overline{BC}$ and $\overline{BE} \cong \overline{BF}$, so by the definition of congruent segments, BA = BC and BE =BF. Adding these together gives BA + BE= BC + BF, and from the figure and the Segment Addition Postulate, AE = BA +BE and CF = BC + BF. It is clear by the Transitive Property that AE = CF, hence $\overline{AE} \cong \overline{CF}$ by the definition of \cong segments. It is given that $\overline{GF} \cong \overline{DE}$ and the Reflexive Property shows that $\overline{FE} \cong \overline{FE}$. So by the Common Segments Theorem, $\overline{GE} \cong \overline{DF}$. The final pair of sides is given congruent, so $\triangle AEG \cong \triangle CFD$ by the Side-Side-Side Congruence Postulate.

Reteach

- 1. It is given that $\overline{JK} \cong \overline{LK}$ and that $\overline{JM} \cong \overline{LM}$. By the Reflex. Prop. of \cong , $\overline{KM} \cong \overline{KM}$. So $\triangle JKM \cong \triangle LKM$ by SSS.
- 2. It is given that $\overline{AB} \cong \overline{CD}$ and that $\overline{AD} \cong \overline{CB}$. By the Reflex. Prop. of \cong , $\overline{AC} \cong \overline{AC}$. So $\triangle ABC \cong \triangle CDA$ by SSS.
- 3. It is given that $\overline{ZW} \cong \overline{XW}$ and that $\angle ZWY$ $\cong \angle XWY$. By the Reflex. Prop. of \cong , $\overline{WY} \cong \overline{WY}$. So $\triangle WXY \cong \triangle WZY$ by SAS.
- 4. BD = FH = 6, so $\overline{BD} \cong \overline{FH}$ by def. of \cong segs. BC = FG = 8, so $\overline{BC} \cong \overline{FG}$ by def. of \cong segs. CD = GH = 9, so $\overline{CD} \cong \overline{GH}$ by

Original content Copyright © by Holt McDougal. Additions and changes to the original content are the responsibility of the instructor.