

### What Did The Grouchy Baker Make?

Write the letter of each answer in the box containing the exercise number.

### Complete the statement.

- A rigid motion maps each part of a figure to a(n) \_\_\_\_\_ part of its image.
- 2. If two angles of one triangle are congruent to two angles of another triangle, then the \_\_\_\_\_ angles are also congruent.

### $\triangle TSR$ and $\triangle ABC$ are congruent. Complete the statement.



## Complete the exercise using the diagram above, given that $\triangle TSR$ and $\triangle ABC$ are congruent.

- 6.  $m \angle R = 19^\circ, m \angle B = 56^\circ$ ; find  $m \angle T$ .
- 7.  $m \angle R = 19^\circ, m \angle B = 56^\circ$ ; find  $m \angle S$ .
- 8.  $m \angle R = 19^\circ, m \angle B = 56^\circ$ ; find  $m \angle C$ .
- **9.** BC = 11, TR = 20; find RS.

An	swers
К.	$\overline{SR}$
Н.	65
N.	17°
Α.	$\overline{BC}$
D.	second
т.	115°
C.	$\angle R$
0.	congruent
М.	29
C.	corresponding
N.	15
Y.	32
Ε.	third
R.	56°
0.	79°
В.	105°
S.	19°
Α.	11

4	7	3	6	1	9	5	2	8



## What Do You Call A Stubborn Angle?

Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

**1.** Identify the theorem.

If two sides and the included angle of one triangle are congruent to two sides and the included angle of a second triangle, then the two triangles are congruent.

# Use the diagram. Identify the parts that are congruent by the given reason in the proof.

STATEMENTS	REASONS
$\overline{AB} \cong \overline{DC}$	Given
$\overline{AB} \parallel \overline{DC}$	Given
2.	Alternate Interior Angles Theorem
3.	Reflexive Property of Congruence
4.	SAS Congruence Theorem



Use the diagram. Name the included angle between the pair of sides given.

- **5.**  $\overline{AC}$  and  $\overline{CB}$
- **6.**  $\overline{BC}$  and  $\overline{CD}$

т	0	н	В	т	м
∠ABC	∠BCD	$\angle ABC \cong \angle CBD$	$\triangle ABC \cong \triangle DCB$	SAS Congruence	$\triangle ABC \cong \triangle BCD$
U	Α	R	М	S	E