Name _____ Date _____

5.1 Puzzle Time

Did You Hear About The Race Between The Lettuce And The Tomato?

A	B	C	D	E	F
G	H	I	J	K	L

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

Identify the type of triangle by its sides.

A. has two congruent sides

B. has three congruent sides

C. has no congruent sides

Identify the type of triangle by its angles.

D. has three congruent angles

E. has one obtuse angle

F. has three acute angles

G. has one right angle

Complete the statement.

H. The measure of a(n) _____ angle of a triangle is equal to the sum of the measures of the two nonadjacent interior angles.

I. The acute angles of a right triangle are _____.

J. The sum of the measures of the _____ angles of a triangle is 180°.

K. Two angles in a triangle measure 36° and 64°. Find the measure of the exterior angle opposite the two angles.

L. The measures of two angles of a triangle are 54° and 17°. Find the measure of the third angle.

bilateral SAUCE
scalene WAS
100° TO
acute AND
equiangular A
80° THE
inverse ROLL
skew SALAD
exterior TOMATO
opposite KNIFE
obtuse “HEAD”
109° “KETCHUP”

right THE
octagon TURTLE
71° RABBIT
equal AND
equilateral LETTUCE
complementary WAS
supplementary RED
triangular WIN
isosceles THE
cute FAST
interior TRYING

Name _____ Date _____

5.2 Puzzle Time

What Did The Grouchy Baker Make?

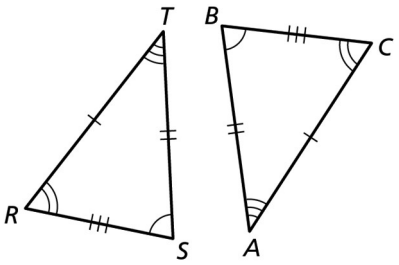
Write the letter of each answer in the box containing the exercise number.

Complete the statement.

1. 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.

3. $\overline{SR} \cong$ ___
4. $\angle C \cong$ ___
5. $\overline{BC} \cong$ ___



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

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

Answers

K. $\overline{SR}$

H. 65

N. 17°

A. $\overline{BC}$

D. second

T. 115°

C. $\angle R$

O. congruent

M. 29

C. corresponding

N. 15

Y. 32

E. third

R. 56°

O. 79°

B. 105°

S. 19°

A. 11

4	7	3	6		1	9	5	2	8