Practice A

Congruent Triangles

Fill in the blanks to complete each definition.

1. _____ angles and _____ sides are in the same position in polygons with an equal number of sides.
2. Two polygons are _____ if and only if their corresponding angles and sides are congruent.

Refer to the figure at △GHI and △JKL for Exercises 3 and 4.

3. Name the three pairs of corresponding sides.
   GH ≅ JK; HI ≅ KL; GI ≅ JL
4. Name the three pairs of corresponding angles.
   ∠G ≅ ∠J, ∠H ≅ ∠K, ∠I ≅ ∠L

Find the value of *x*.

5. Given: △DEF ≅ △ABC — x = 28
6. Given: △ABC ≅ △PQR — x = 8.1
7. Brianna lives in Alto. Without the help of flying, she has to cut through so that measures of angles at V are congruent. Use the phrases from the word bank to complete the two-column proof.

Given: ∠S and ∠U are right angles; ∠SVW ≅ ∠UVW; SV ≅ UV; ST ≅ UT

Prove: △STV ≅ △UTV

Word bank: ∠S ≅ ∠U; Third ∠ Thm.; Given; △SVT ≅ △UVT

Proof:

Statements	Reasons
1. SV ≅ UV; ST ≅ UT	1. Given
2. TV ≅ TV	2. Reflex. Prop. of ≅
3. ∠S and ∠U are right angles.	3. a. Given
4. b. ∠S ≅ ∠U	4. Rt. ∠s Thm.
5. ∠SVW ≅ ∠UVW	5. Given
6. ∠SVW and ∠SVT are supplementary. ∠UVW and ∠UVT are supplementary.	6. Lin. Pair Thm.
7. c. ∠SVT ≅ ∠UVT	7. ≅ Supps. Thm.
8. △STV ≅ △UTV	8. a. Third ∠ Thm.
9. △STV ≅ △UTV	9. Def. of ≅ △s

Practice B

Congruent Triangles

In baseball, home plate is a pentagon. Pentagon *ABCDE* is a diagram of a regulation home plate. The baseball rules are very specific about the exact dimensions of this pentagon so that every home plate is congruent to every other home plate. If pentagon *PQRST* is another home plate, identify each congruent corresponding part.

1. ∠B ≅ ∠Q
2. ∠P ≅ ∠D
3. ED ≅ TP
4. ∠T ≅ ∠T
5. RQ ≅ AB
6. TS ≅ ED

Given: △DEF ≅ △LMN. Find each value.

7. m∠L — 48°
8. EF — 37.3
9. Write a two-column proof.

Given: ∠U ≅ ∠WVY ≅ ∠ZVY ≅ ∠Z; UZ ≅ WY; XY ≅ ZY; UX ≅ WZ

Prove: △UVW ≅ △WXZ

Proof: Possible answer:

Statements	Reasons
1. ∠U ≅ ∠WVY ≅ ∠ZVY ≅ ∠Z	1. Given
2. ∠V ≅ ∠Y	2. Third ∠ Thm.
3. UV ≅ WY, XY ≅ ZY	3. Given
4. UX ≅ WZ	4. Given
5. UX ≅ WZ, WX ≅ WX	5. Def. of ≅ segs. Reflexive Prop. of ≅
6. UX ≅ UW + WX, WZ ≅ XZ + WX	6. Seg. Add. Post.
7. UW + WX ≅ XZ + WX	7. Subst.
8. UW ≅ XZ	8. Subtr. Prop. of ≅
9. △UVW ≅ △WXZ	9. Def. of ≅ △s

10. Given: △CDE ≅ △RLI; DE = 8*x* and LI = 7*x* − 5. Find *x* and DE.
    $x = \frac{5}{3}$; DE = $13\frac{1}{3}$
11. Given: △CDE ≅ △RLI; m∠D = (8*y* + 1)°, and m∠I = (6*y* − 25)°. Find *y* and m∠D.
    y = 26; m∠D = 131°

Practice C

Congruent Triangles

Mr. X is an inventive person. He takes pleasure in drawing a triangle and seeing if another person can recreate his drawing from piecemeal information. For each exercise, draw a diagram to support your answer. (Hint: Begin each exercise by drawing a triangle. Measure the parts of your triangle that Mr. X gives you and try to draw a different triangle with those parts. If the two triangles are congruent, you drew Mr. X's triangle.)

1. If Mr. X gives you the measures of the sides of a triangle, could you be sure you would draw Mr. X's triangle?
   Yes; possible answer:
2. If Mr. X gives you the measures of the angles of a triangle, could you be sure you would draw Mr. X's triangle?
   No; possible answer:
3. If Mr. X gives you the measures of one angle and of both sides of that angle, could you be sure you would draw Mr. X's triangle?
   Yes; possible answer:
4. If Mr. X gives you the measures of one side and both angles that share that side, could you be sure you would draw Mr. X's triangle?
   Yes; possible answer:
5. If Mr. X gives you the measures of one angle, one adjacent side, and the side opposite the angle, could you be sure you would draw Mr. X's triangle? (Hint: Start with an angle less than 45° and a long adjacent side.)
   No; possible answer:

Reteach

Congruent Triangles

Triangles are **congruent** if they have the same size and shape. Then **corresponding parts**, the angles and sides that are in the same positions, are congruent.

Corresponding Parts	
Congruent Angles	Congruent Sides
∠A ≅ ∠J	$\overline{AB} \cong \overline{JK}$
∠B ≅ ∠K	$\overline{BC} \cong \overline{KL}$
∠C ≅ ∠L	$\overline{CA} \cong \overline{LJ}$

△ABC ≅ △JKL

To identify corresponding parts of congruent triangles, look at the order of the vertices in the congruence statement such as △ABC ≅ △JKL.

Given: △XYZ ≅ △MPO. Identify the congruent corresponding parts.

1. ∠Z — ∠O
2. YZ — PO
3. ∠P — ∠Y
4. ∠X — ∠M
5. MO — XZ
6. PM — YX

Given: △EFG ≅ △RST. Find each value below.

7. *x* — 21
8. *y* — 8
9. m∠T — 82°
10. ST — 19

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