

**Practice A**  
**8.5.1 Congruent Triangles**

Put in the blanks to complete each definition.

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

Refer to the figure of  $\triangle GHJ$  and  $\triangle KLM$  for Exercises 3 and 4.

- Name the three pairs of corresponding sides.  
 $\overline{GH} \cong \overline{JK}$ ,  $\overline{HG} \cong \overline{KL}$ ,  $\overline{JG} \cong \overline{JK}$

- Name the three pairs of corresponding angles.  
 $\angle G \cong \angle J$ ,  $\angle H \cong \angle K$ ,  $\angle JG \cong \angle LK$

Find the value of  $x$ .

- Given  $\triangle GHJ \cong \triangle KLM$ ,  $\angle H = 28^\circ$ .
- Given  $\triangle ABC \cong \triangle DEF$ ,  $\angle A = 81^\circ$ .

- Sketch two  $\triangle ABC$ . About the side  $AC$  of the first, the first angle of the second, and the indicated angle of  $\triangle ABC$  congruent. Use the previous steps to show how to construct the two congruent graphs.

Given:  $\angle A$  and  $\angle C$  are right angles.  
 $\triangle GHJ \cong \triangle KLM$ ,  $\overline{GH} \cong \overline{JK}$ ,  $\overline{JG} \cong \overline{LK}$

Prove:  $\triangle GHJ \cong \triangle KLM$

Statements	Reasons
1. $\angle G$ and $\angle J$ are right angles.	1. Given
2. $\overline{GH} \cong \overline{JK}$	2. Reflex Prop. of $\cong$
3. $\angle G \cong \angle J$	3. Given
4. $\triangle GHJ \cong \triangle KLM$	4. SAS
5. $\angle H \cong \angle M$	5. Cor. Prop. of $\cong$
6. $\overline{JG} \cong \overline{LK}$	6. Given
7. $\triangle GHJ \cong \triangle KLM$	7. SAS
8. $\angle H \cong \angle M$	8. Cor. Prop. of $\cong$

**Practice B**  
**8.5.2 Congruent Triangles**

In Euclid, there plate is a polygon. Polygon  $ABCCD$  is a diagram of a regular pentagon. The Euclidean rules are very specific about the exact dimensions of this polygon so that every Euclidean plate is congruent to every other. From a plate, if you know  $AB$  is greater than plate, identify each congruent corresponding part.



- $\angle B \cong \angle D$
- $\angle C \cong \angle E$
- $\overline{BC} \cong \overline{DE}$
- $\overline{AB} \cong \overline{CD}$
- $\overline{AC} \cong \overline{BD}$
- $\overline{AD} \cong \overline{BC}$

Given:  $\triangle GHI \cong \triangle JKL$ . Find each value.

- $m\angle G = 62^\circ$
- $\overline{GI} = 37.3$

- Write a two-column proof.

Given:  $\angle A \cong \angle D$ ,  $\overline{AB} \cong \overline{DE}$ ,  $\angle B \cong \angle E$   
 $\angle C \cong \angle F$ ,  $\overline{BC} \cong \overline{EF}$ ,  $\angle D \cong \angle G$

Prove:  $\triangle ABC \cong \triangle DEF$

Prove: Possible answer:

Statements	Reasons
1. $\angle A \cong \angle D$ , $\overline{AB} \cong \overline{DE}$ , $\angle B \cong \angle E$	1. Given
2. $\triangle ABC \cong \triangle DEF$	2. Third $\angle$ Theorem
3. $\angle C \cong \angle F$ , $\overline{BC} \cong \overline{EF}$ , $\angle D \cong \angle G$	3. Given
4. $\triangle ABC \cong \triangle DEF$	4. Given
5. $\overline{AC} \cong \overline{DF}$ , $\overline{BC} \cong \overline{EF}$ , $\angle C \cong \angle F$	5. Def. of $\cong$ segs., Reflex Prop. of $\cong$
6. $\triangle ABC \cong \triangle DEF$ , $\overline{BC} \cong \overline{EF}$ , $\angle C \cong \angle F$	6. Seg. Add. Post.
7. $\overline{AC} \cong \overline{DF}$ , $\overline{BC} \cong \overline{EF}$ , $\angle C \cong \angle F$	7. Subst.
8. $\triangle ABC \cong \triangle DEF$	8. Subst. Prop. of $\cong$
9. $\triangle ABC \cong \triangle DEF$	9. Def. of $\cong$ tri.

- Given:  $\triangle ABC \cong \triangle DEF$ ,  $\angle A = 60^\circ$  and  $\angle D = 70^\circ$ . Find  $m\angle C$ .  
 $m\angle C = 130^\circ$

- Given:  $\triangle ABC \cong \triangle DEF$ ,  $\angle A = 60^\circ$  and  $\angle D = 70^\circ$ . Find  $m\angle C$  and  $m\angle F$ .  
 $m\angle C = 130^\circ$ ,  $m\angle F = 130^\circ$

**Practice C**  
**8.5.3 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 geometric information. For each example, draw a diagram to support your answer. (After you draw each example, try to draw a different triangle with those parts. If the two triangles are congruent, you draw Mr. X's triangle.)

- 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.



- 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.



- 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.



- 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.



- 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  $90^\circ$  and a long adjacent side.)  
No, possible answer.



**Reteach**  
**8.5.4 Congruent Triangles**

Triangles are congruent if they have the same size and shape. Their corresponding parts, the angles and sides that are in the same position, are congruent.



Corresponding Parts	
Congruent Angles	Congruent Sides
$\angle A \cong \angle D$	$\overline{AD} \cong \overline{AD}$
$\angle B \cong \angle E$	$\overline{BE} \cong \overline{BE}$
$\angle C \cong \angle F$	$\overline{CF} \cong \overline{CF}$

To identify corresponding parts of congruent triangles, look at the order of the vertices in the congruence statement such as  $\triangle ABC \cong \triangle DEF$ .

Given:  $\triangle MNO \cong \triangle PQR$ . Identify the congruent corresponding parts.

- $\angle M \cong \angle P$
- $\angle N \cong \angle Q$
- $\angle O \cong \angle R$
- $\overline{MN} \cong \overline{PQ}$
- $\overline{NO} \cong \overline{QR}$
- $\overline{MO} \cong \overline{PR}$

Given:  $\triangle GHI \cong \triangle JKL$ . Find each value below.

- $x = 21$
- $m\angle J = 62^\circ$
- $x = 8$
- $m\angle K = 18$

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**Arshad Iqbal**



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