

Practice A

5.3 Congruent Triangles

Fill in the blanks to complete each definition.

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

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

$$\overline{GH} \cong \overline{JK}, \overline{HJ} \cong \overline{KL}, \overline{GJ} \cong \overline{JL}$$

3. Name the three pairs of corresponding angles.

$$\angle G \cong \angle J, \angle H \cong \angle K, \angle J \cong \angle L$$

4. Find the value of x .



5. Given: $\triangle GHJ \cong \triangle KJL$, $x = 25$

6. Given: $\triangle GHJ \cong \triangle KJL$, $x = 25$

7. Explain how a kite, when the kite is flying well, the tail sticks out straight as the indicated angles at V are congruent. Use the previous part of the word bank to complete this two-column proof.

$$\text{Given: } \angle 1 \text{ and } \angle 2 \text{ are right angles. } \angle 3 \cong \angle 4, \angle 5 \cong \angle 6, \angle 7 \cong \angle 8$$

$$\text{Prove: } \angle 3 \cong \angle 4, \angle 5 \cong \angle 6$$

Proof:

Statements	Reasons
1. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	1. Given
2. $\angle 1 \cong \angle 2$	2. Reflex Prop. of \cong
3. $\angle 1$ and $\angle 2$ are right angles	3. Given
4. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	4. Reflex Prop. of \cong
5. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	5. Given
6. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	6. Lin. Pair Prop.
7. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	7. Subst.
8. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	8. Subst.
9. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	9. Subst.
10. $\angle 3 \cong \angle 4$, $\angle 5 \cong \angle 6$	10. Subst.

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Practice C

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 piecemeal information. For each example, draw a diagram to support your answer. (Note: 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.)

- 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° and a long adjacent side.)

No, possible answer:



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Practice B

5.3 Congruent Triangles

In baseball, home plate is a pentagon. Pentagon $ABODE$ 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 $FGHIJ$ is another home plate, identify each congruent corresponding part.

- $\angle A \cong \angle F$
- $\angle B \cong \angle G$
- $\angle D \cong \angle I$
- $\angle E \cong \angle J$
- $\overline{AB} \cong \overline{FG}$
- $\overline{BD} \cong \overline{HI}$
- $\overline{DE} \cong \overline{IJ}$
- $\overline{EO} \cong \overline{JO}$

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

- $m\angle F = 40^\circ$
- $m\angle G = 37^\circ$
- Write a two-column proof.

$$\text{Given: } \angle D \cong \angle G, \angle E \cong \angle H, \angle F \cong \angle I, \angle D \cong \angle G, \angle E \cong \angle H, \angle F \cong \angle I$$

Prove: $\triangle DEF \cong \triangle GHI$

Proof: Possible answer:

Statements	Reasons
1. $\angle D \cong \angle G, \angle E \cong \angle H, \angle F \cong \angle I$	1. Given
2. $\angle D \cong \angle G$	2. Third \angle Theorem
3. $\angle E \cong \angle H, \angle F \cong \angle I$	3. Given
4. $\angle D \cong \angle G$	4. Given
5. $\angle D \cong \angle G, \angle E \cong \angle H$	5. Def. of \cong angles
6. $\angle D \cong \angle G, \angle E \cong \angle H$	6. Subst. Prop. of \cong
7. $\angle D \cong \angle G, \angle E \cong \angle H$	7. Subst.
8. $\angle D \cong \angle G, \angle E \cong \angle H$	8. Subst. Prop. of \cong
9. $\triangle DEF \cong \triangle GHI$	9. Def. of \cong triangles

10. Given: $\triangle DEF \cong \triangle GHI$, $m\angle D = 40^\circ$, and $m\angle E = 30^\circ$. Find $m\angle F$.

$$x = \frac{1}{2} \cdot 110^\circ = 55^\circ$$

11. Given: $\triangle DEF \cong \triangle GHI$, $m\angle D = 40^\circ$, and $m\angle E = 30^\circ$. Find x and $m\angle F$.

$$x = 25; m\angle F = 125^\circ$$

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Review

5.3 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
$\angle A \cong \angle D$	$\overline{AB} \cong \overline{DE}$
$\angle B \cong \angle E$	$\overline{BC} \cong \overline{EF}$
$\angle C \cong \angle F$	$\overline{AC} \cong \overline{DF}$

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: $\triangle ABC \cong \triangle DEF$. Identify the congruent corresponding parts.

- $\angle A \cong \angle D$
- $\angle B \cong \angle E$
- $\angle C \cong \angle F$
- $\overline{AB} \cong \overline{DE}$
- $\overline{BC} \cong \overline{EF}$
- $\overline{AC} \cong \overline{DF}$

Given: $\triangle ABC \cong \triangle DEF$. Find each value below.

- $x = 21$
- $m\angle F = 62^\circ$
- $x = 8$
- $m\angle E = 118^\circ$

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