

Practice A
ES.3 Congruent Triangles

Put in the blanks to complete each definition.

- Two polygons are congruent if they have the same shape and size. 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 $\triangle GHF$ and $\triangle JKL$ for Exercises 3 and 4.

3. Name the three pairs of corresponding sides.
 $\overline{GH} \cong \overline{JK}$, $\overline{HF} \cong \overline{KL}$, $\overline{GF} \cong \overline{JL}$

4. Name the three pairs of corresponding angles.
 $\angle G \cong \angle J$, $\angle H \cong \angle K$, $\angle F \cong \angle L$

Find the value of x .

5. Given: $\triangle DEF \cong \triangle MNP$ $x = 38$

6. Given: $\triangle ABC \cong \triangle PQR$ $x = 8.1$

7. Elmo has a kite. When the kite is flying well, the tail sticks out straight so the indicated angles at N are congruent. Use the phrases from the word bank to complete this two-column proof.

Given: $\angle B$ and $\angle D$ are right angles.
 $\triangle BVT \cong \triangle DWT$, $BT = DV$, $VT = DT$

Prove: $\triangle BTV \cong \triangle DTV$

Statements	Reasons
1. $\angle B \cong \angle D$	1. Given
2. $BT = DV$	2. Reflex. Prop. of $=$
3. $\angle BVT \cong \angle DWT$	3. Given
4. $VT = DT$	4. Reflex. Prop. of $=$
5. $\triangle BTV \cong \triangle DTV$	5. SAS

Practice B
ES.3 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.

- $\angle A \cong \angle P$
- $\angle B \cong \angle Q$
- $\angle C \cong \angle R$
- $\angle D \cong \angle S$
- $\angle E \cong \angle T$
- $\overline{AB} \cong \overline{PQ}$
- $\overline{BC} \cong \overline{QR}$
- $\overline{CD} \cong \overline{RS}$
- $\overline{DE} \cong \overline{ST}$
- $\overline{EA} \cong \overline{TP}$

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

7. $m\angle E = 40^\circ$

8. $DF = 37.3$

9. Write a two-column proof.

Given: $\triangle M \cong \triangle N$, $\angle M \cong \angle N$, $\angle P \cong \angle Q$, $\angle R \cong \angle S$, $\angle T \cong \angle U$, $\angle V \cong \angle W$

Prove: $\triangle MNP \cong \triangle QRS$

Proof: Possible answer:

Statements	Reasons
1. $\angle M \cong \angle N$, $\angle P \cong \angle Q$, $\angle R \cong \angle S$	1. Given
2. $\angle MNP \cong \angle QRS$	2. Third \angle Thm.
3. $\angle M \cong \angle N$, $\angle P \cong \angle Q$	3. Given
4. $\angle MNP \cong \angle QRS$	4. Given
5. $\angle MNP \cong \angle QRS$	5. Def. of \cong angles
6. $\angle MNP \cong \angle QRS$	6. Reflex. Prop. of $=$
7. $\angle MNP \cong \angle QRS$	7. Subst.
8. $\angle MNP \cong \angle QRS$	8. Subst. Prop. of $=$
9. $\triangle MNP \cong \triangle QRS$	9. Def. of \cong triangles

10. Given: $\triangle ABC \cong \triangle DEF$, $AB = 5x$, and $DE = 7x + 5$. Find x and AB .

$x = 5$; $AB = 25$

11. Given: $\triangle ABC \cong \triangle DEF$, $m\angle A = 40^\circ$, and $m\angle F = 20^\circ$. Find y and $m\angle C$.

$y = 20$; $m\angle C = 120^\circ$

Practice C
ES.3 Congruent Triangles

Mr. X is an impatient person. He takes pleasure in drawing a triangle and seeing if another person can recreate his drawing from geometrical 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.)

- 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:

Reteach
ES.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: $\triangle XYZ \cong \triangle MPO$. Identify the congruent corresponding parts.

- $\angle X \cong \angle M$
- $\angle Y \cong \angle P$
- $\angle Z \cong \angle O$
- $\overline{XY} \cong \overline{MP}$
- $\overline{YZ} \cong \overline{PO}$
- $\overline{XZ} \cong \overline{MO}$
- $\overline{XY} \cong \overline{MP}$
- $\overline{YZ} \cong \overline{PO}$
- $\overline{XZ} \cong \overline{MO}$
- $\overline{XY} \cong \overline{MP}$
- $\overline{YZ} \cong \overline{PO}$
- $\overline{XZ} \cong \overline{MO}$

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

- $x = 21$
- $y = 6$
- $m\angle A = 52^\circ$
- $m\angle D = 10$

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M Carnoy



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Table of Contents Holt Mcdougal Geometry Triangle Congruence Answer Key

1. Understanding the eBook Holt Mcdougal Geometry Triangle Congruence Answer Key
 - The Rise of Digital Reading Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Holt Mcdougal Geometry Triangle Congruence Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Personalized Recommendations
 - Holt Mcdougal Geometry Triangle Congruence Answer Key User Reviews and Ratings

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- Holt Mcdougal Geometry Triangle Congruence Answer Key and Bestseller Lists
- 5. Accessing Holt Mcdougal Geometry Triangle Congruence Answer Key Free and Paid eBooks
 - Holt Mcdougal Geometry Triangle Congruence Answer Key Public Domain eBooks
 - Holt Mcdougal Geometry Triangle Congruence Answer Key eBook Subscription Services
 - Holt Mcdougal Geometry Triangle Congruence Answer Key Budget-Friendly Options
- 6. Navigating Holt Mcdougal Geometry Triangle Congruence Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Holt Mcdougal Geometry Triangle Congruence Answer Key Compatibility with Devices
 - Holt Mcdougal Geometry Triangle Congruence Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Highlighting and Note-Taking Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Interactive Elements Holt Mcdougal Geometry Triangle Congruence Answer Key
- 8. Staying Engaged with Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Holt Mcdougal Geometry Triangle Congruence Answer Key
- 9. Balancing eBooks and Physical Books Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Holt Mcdougal Geometry Triangle Congruence Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Setting Reading Goals Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Fact-Checking eBook Content of Holt Mcdougal Geometry Triangle Congruence Answer Key
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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