

**Practice A**  
**CS.2** 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.  
 $\overline{GH} \cong \overline{JK}$ ,  $\overline{HG} \cong \overline{KL}$ ,  $\overline{JG} \cong \overline{LM}$

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

Find the value of  $x$ .

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

- Sketch two  $\triangle ABC$ . Show the two  $\triangle ABC$  lying with the left sides of the indicated angles at  $A$  and congruent. Use the previous steps to show how to complete the two congruent parts.

Given:  $\angle A$  and  $\angle C$  are right angles.  
 $\triangle GHI \cong \triangle JKL$ ,  $\angle H = 28^\circ$ ,  $\angle I = 22^\circ$

Prove:  $\triangle GHI \cong \triangle JKL$

Statements	Reasons
1. $\angle G = 90^\circ$ , $\angle I = 90^\circ$	1. Given
2. $\angle H = 28^\circ$	2. Reflex Prop. of $\angle$
3. $\angle G$ and $\angle I$ are right angles.	3. $\angle$ Given
4. $\angle G \cong \angle I$	4. Reflex Prop. of $\angle$
5. $\triangle GHI \cong \triangle JKL$	5. Given
6. $\triangle GHI$ and $\triangle JKL$ are supplementary.	6. Lin. Pair Prop.
7. $\angle GHI \cong \angle JKL$	7. Subst. Prop.
8. $\angle GHI = 28^\circ$	8. Third $\angle$ Theorem
9. $\angle GHI = \angle GHI$	9. Refl. Prop. of $\angle$

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19

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**Practice B**  
**CS.3** Congruent Triangles

In Euclid, there plate is a polygon. Polygon  $ABCCD$  is a diagram of a regular home plate. The baseball rules are very specific about the exact dimensions of this polygon so that every home plate is congruent to every other home plate. If polygon  $ABCCD$  is regular, name plate. Identify each congruent corresponding part.



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

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

- $m\angle G = 62^\circ$
- $\angle I = 37.5^\circ$

Write a two-column proof.

Given:  $\angle A \cong \angle D$ ,  $\angle B \cong \angle E$ ,  $\angle C \cong \angle F$   
 $\angle G = 90^\circ$ ,  $\angle H = 28^\circ$ ,  $\angle I = 90^\circ$

Prove:  $\triangle GHI \cong \triangle JKL$

Prove. Possible answer:

Statements	Reasons
1. $\angle A \cong \angle D$ , $\angle B \cong \angle E$ , $\angle C \cong \angle F$	1. Given
2. $\angle G \cong \angle I$	2. Third $\angle$ Theorem
3. $\angle G = 90^\circ$ , $\angle H = 28^\circ$	3. Given
4. $\angle G \cong \angle I$	4. Given
5. $\angle G \cong \angle I$ , $\angle H \cong \angle J$ , $\angle I \cong \angle K$	5. Def. of $\cong$ angle
6. $\triangle GHI \cong \triangle JKL$	6. Reflex Prop. of $\cong$
7. $\angle G = 90^\circ$ , $\angle H = 28^\circ$ , $\angle I = 90^\circ$	7. Subst.
8. $\angle G = 90^\circ$	8. Subst. Prop. of $\cong$
9. $\triangle GHI \cong \triangle JKL$	9. Def. of $\cong$ triangles

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

$$x = \frac{1}{2} \cdot 60 = 30$$

- Given:  $\triangle ABC \cong \triangle DEF$ ,  $\angle B = 30^\circ$  and  $\angle E = 10^\circ$ . Find  $y$  and  $m\angle D$ .

$$y = 20; m\angle D = 130^\circ$$

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20

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**Practice C**  
**CS.3** Congruent Triangles

Mr. X is an insurance person. He takes pleasure in drawing a triangle and asking if another person can recreate his drawing from geometrical information. For each example, draw a diagram to support your answer. (After you 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 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 and adjacent sides, 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.



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21

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**Reteach**  
**CS.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
$\angle A \cong \angle D$	$\overline{AD} \cong \overline{JK}$
$\angle B \cong \angle E$	$\overline{BE} \cong \overline{KL}$
$\angle C \cong \angle F$	$\overline{CF} \cong \overline{LJ}$

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:  $\triangle GHI \cong \triangle JKL$ . Identify the congruent corresponding parts.

- $\angle G \cong \angle J$
- $\angle H \cong \angle K$
- $\angle I \cong \angle L$
- $\overline{GH} \cong \overline{JK}$
- $\overline{HI} \cong \overline{KL}$
- $\overline{GI} \cong \overline{JL}$

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

- $x = 21$
- $m\angle F = 62^\circ$
- $y = 8$
- $m\angle H = 18$

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22

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**Arturo Cuomo**



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## **Table of Contents Geometry Chapter Resource Answer Key**

1. Understanding the eBook Geometry Chapter Resource Answer Key
  - The Rise of Digital Reading Geometry Chapter Resource Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Chapter Resource 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 Geometry Chapter Resource Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Chapter Resource Answer Key
  - Personalized Recommendations
  - Geometry Chapter Resource Answer Key User Reviews and Ratings
  - Geometry Chapter Resource Answer Key and Bestseller Lists

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