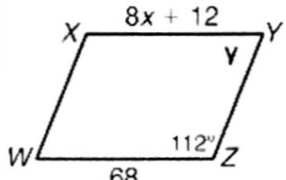
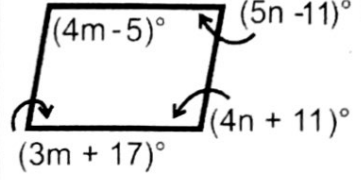
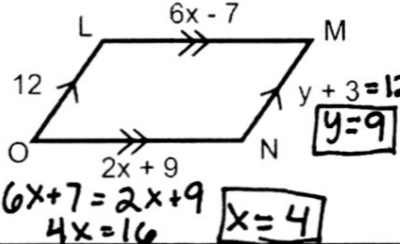
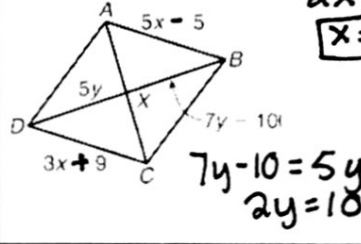
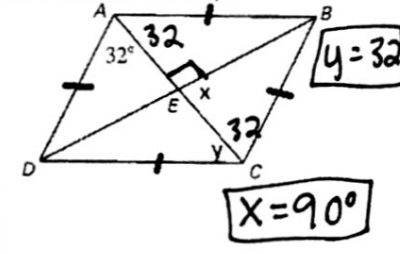
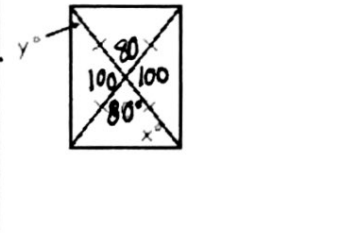
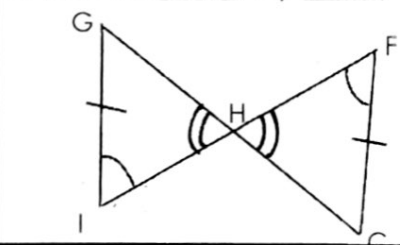
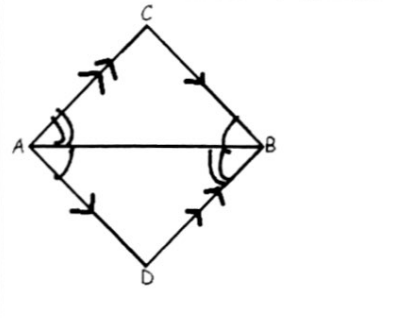
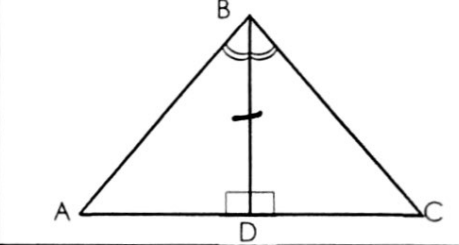
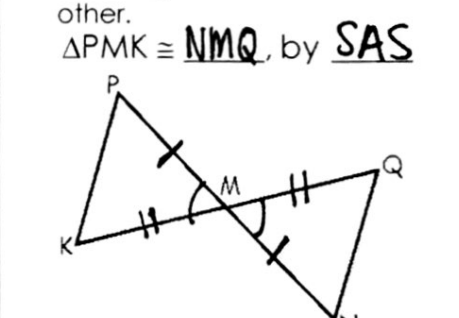
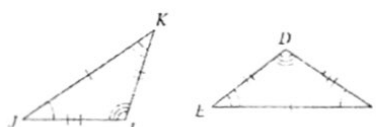
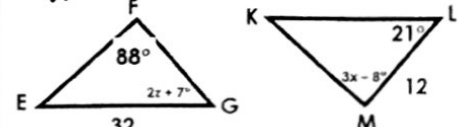


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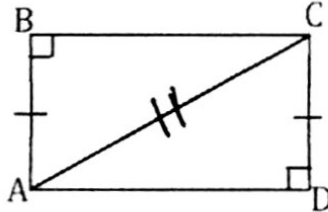
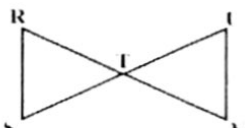
Date: _____

Use the following to review for you test. **Show your work on a separate sheet of paper if needed.**

Things to Know	Things to Remember	Examples $4m - 5 + 3m + 17 = 180$ $7m + 12 = 180$ $m = 24$	
<p>Properties of Parallelograms.</p>	<ul style="list-style-type: none"> • Opposite angles are congruent • Consecutive angles are supplementary • Opposite sides are equal • Diagonals bisect each other 	<p>1. Find x. $8x + 12 = 68$ $x = 7$</p>  <p>$Y = 68$</p>	<p>2. Find m and n. $9n = 180$ $n = 20$</p> 
<p>Special Parallelograms</p>	<ul style="list-style-type: none"> • A rectangle is a parallelogram with 4 right angles. • A rhombus is a parallelogram with 4 congruent sides. • A square is a rectangle and rhombus 	<p>3. Find x and y.</p>  <p>$6x + 7 = 2x + 9$ $4x = 16$ $x = 4$</p> <p>$y + 3 = 12$ $y = 9$</p>	<p>4. Find x and y. $5x - 5 = 3x + 9$ $2x = 14$ $x = 7$</p>  <p>$7y - 10 = 5x$ $2y = 18$ $y = 9$</p>
<p>Triangle Congruence</p>	<p>SSS, SAS, ASA, AAS, HL, None</p>	<p>5. Find x and y.</p>  <p>$y = 32$</p> <p>$x = 90^\circ$</p>	<p>6. Find x and y.</p> 
<p>Triangle Congruence</p>	<p>SSS, SAS, ASA, AAS, HL, None</p>	<p>7. $\triangle GHI \cong \triangle CHF$, by <u>AAS</u></p>  <p>9. $\triangle CAB \cong \triangle DBA$, by <u>ASA</u></p> 	<p>8. $\triangle ABD \cong \triangle CBD$, by <u>ASA</u></p>  <p>10. The diagonals bisect each other. $\triangle PMK \cong \triangle NMQ$, by <u>SAS</u></p> 

<p>CPCTC</p>	<p>Corresponding Parts of Congruent Triangles are Congruent</p>	<p>11. $\triangle DFE \cong \triangle IJK$</p> 	<p>12. $\triangle EFG \cong \triangle KML$, find X and Z.</p> <p>$3x - 8 = 88$ $2x + 7 = 21$</p>  <p>$x = 32$</p>
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<p>Choice Bank: SSS Reflexive Property Transitive Property</p>	<p>SAS Alternate Interior Angles \cong ASA AAS HL Definition of a Midpoint</p>	<p>CPCTC Vertical Angles are \cong Right Angles are \cong Given</p>
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<p>Proofs</p>	<p>State what is given first, and mark your picture!</p> <p><u>Step 1</u> – Write down the givens <u>Step 2</u> – Make any marks that you know are congruent (reflexive property, vertical angles, alternate interior angles) <u>Step 3</u> – The last Statement will always be showing the Triangles are \cong (SSS, SAS, ASA, AAS, HL)</p>	<p>13. Given: $\overline{AB} \cong \overline{DC}$ Prove: $\triangle ABC \cong \triangle CDA$</p>  <table border="1" data-bbox="682 756 1510 1155"> <thead> <tr> <th>Statements</th> <th>Reasons</th> </tr> </thead> <tbody> <tr> <td>1. $\overline{AB} \cong \overline{DC}$</td> <td>1. Given</td> </tr> <tr> <td>2. $\overline{AC} \cong \overline{AC}$</td> <td>2. Reflexive Property</td> </tr> <tr> <td>3. $\angle ABC$ & $\angle CDA$ are right angles.</td> <td>3. Given</td> </tr> <tr> <td>4. $\angle ABC \cong \angle CDA$</td> <td>4. All right \angles \cong</td> </tr> <tr> <td>5. $\triangle ABC \cong \triangle CDA$</td> <td>5. HL</td> </tr> </tbody> </table>	Statements	Reasons	1. $\overline{AB} \cong \overline{DC}$	1. Given	2. $\overline{AC} \cong \overline{AC}$	2. Reflexive Property	3. $\angle ABC$ & $\angle CDA$ are right angles.	3. Given	4. $\angle ABC \cong \angle CDA$	4. All right \angle s \cong	5. $\triangle ABC \cong \triangle CDA$	5. HL	<p>14. Given: $\overline{RT} \cong \overline{TV}$, $\overline{ST} \cong \overline{TU}$ Prove: $\angle TSR \cong \angle TUV$</p>  <table border="1" data-bbox="682 1323 1510 1701"> <thead> <tr> <th>Statements</th> <th>Reasons</th> </tr> </thead> <tbody> <tr> <td>1. $\overline{RT} \cong \overline{TV}$</td> <td>1. Given</td> </tr> <tr> <td>2. $\overline{ST} \cong \overline{TU}$</td> <td>2. Given</td> </tr> <tr> <td>3. $\angle RTS \cong \angle VTU$</td> <td>3. Vertical \angles \cong</td> </tr> <tr> <td>4. $\triangle RTS \cong \triangle VTU$</td> <td>4. SAS \cong</td> </tr> <tr> <td>5. $\angle TSR \cong \angle TUV$</td> <td>5. CPCTC</td> </tr> </tbody> </table>	Statements	Reasons	1. $\overline{RT} \cong \overline{TV}$	1. Given	2. $\overline{ST} \cong \overline{TU}$	2. Given	3. $\angle RTS \cong \angle VTU$	3. Vertical \angle s \cong	4. $\triangle RTS \cong \triangle VTU$	4. SAS \cong	5. $\angle TSR \cong \angle TUV$	5. CPCTC
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