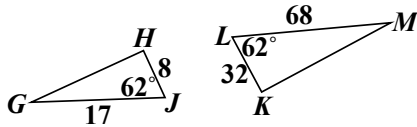
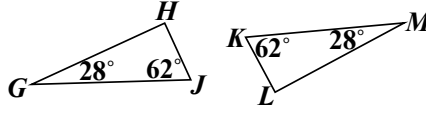
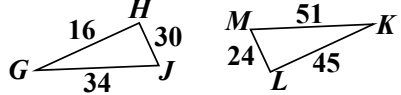


Name: _____

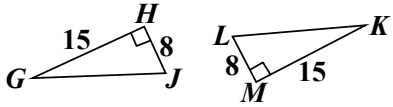
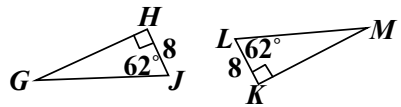
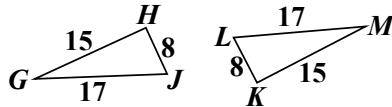
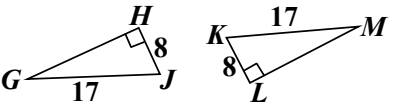
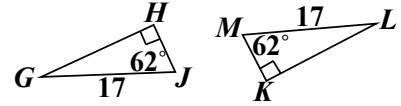
Proving Triangles Congruent or Similar

Congruence Properties	Similarity Properties
SSS SAS ASA AAS HL	SSS SAS AA
Remember: Sides have to be the same. Angles have to be the same.	Remember: Side FRACTIONS have to be the same. Angles have to be the same.

Determine what property can be used to prove that the triangles are **similar**. Then, fill in the similarity statement using the correct letter order.

<p>1.</p>  <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>	<p>2.</p> $\frac{GH}{MK} = \frac{HJ}{KL}$ $\frac{GH}{MK} = \frac{GJ}{ML}$ <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>	<p>3.</p> $\angle G \cong \angle K$ $\angle H \cong \angle L$ <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>
<p>4.</p> $\frac{GH}{KL} = \frac{HJ}{LM}$ $\angle H \cong \angle L$ <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>	<p>5.</p>  <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>	<p>6.</p>  <p>$\Delta GHJ \sim \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS AA</p>

Determine what property can be used to prove that the triangles are **congruent**. Then, fill in the congruence statement using the correct letter order.

<p>7.</p>  <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>8.</p> $\overline{GH} \cong \overline{MK}$ $\overline{HJ} \cong \overline{KL}$ $\overline{GJ} \cong \overline{ML}$ <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>9.</p>  <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>
<p>10.</p> $\overline{GJ} \cong \overline{MK}$ $\angle G \cong \angle M$ $\angle J \cong \angle K$ <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>11.</p>  <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>12.</p> $\overline{HJ} \cong \overline{KL}$ $\overline{GJ} \cong \overline{ML}$ $\angle J \cong \angle L$ <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>
<p>13.</p>  <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>14.</p> $\overline{GJ} \cong \overline{ML}$ $\angle J \cong \angle L$ $\angle H \cong \angle K$ <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>	<p>15.</p>  <p>$\Delta GHJ \cong \Delta \underline{\hspace{1cm}}$ by which property? SSS SAS ASA AAS HL</p>