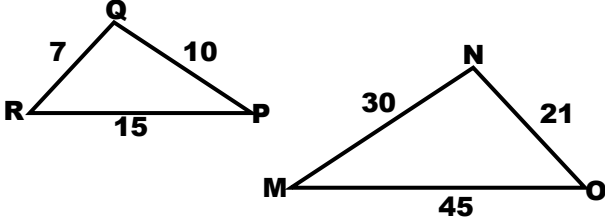
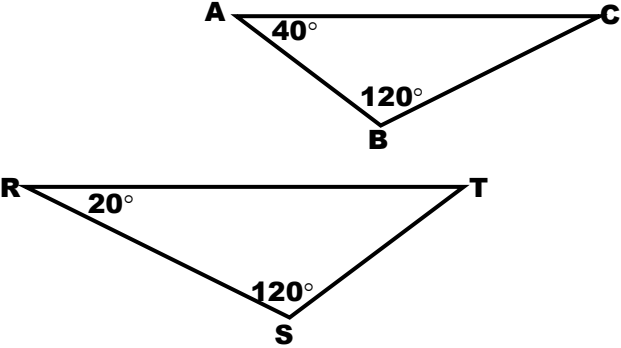
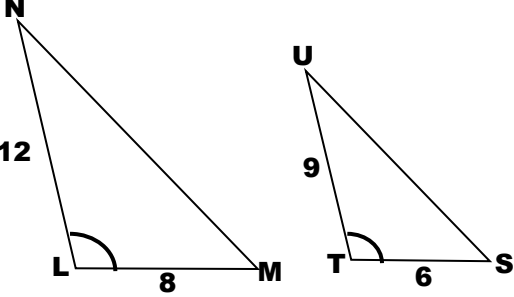
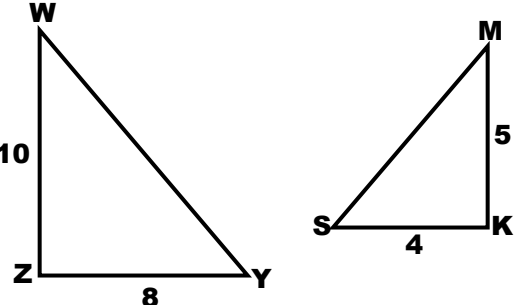
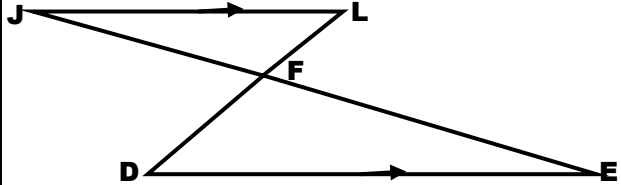
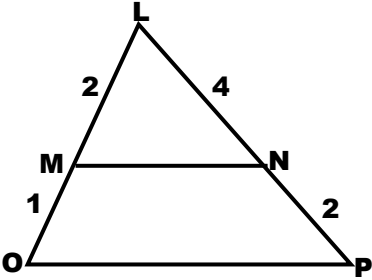


NAME _____ DATE _____ PER. _____

SIMILAR TRIANGLES

Can the following triangles be proven similar? If yes, how? Write a similarity statement if possible.

<p>6 POINTS EACH</p>	<p>1. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>	
<p>2. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>		
<p>3. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>		
<p>4. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>		

<p>6 POINTS EACH</p>	<p>5. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>	
<p>7. Similar? YES or NO If yes, HOW? _____ Δ _____ \sim Δ _____</p>		
<p>9. Similar? YES or NO If yes, HOW? _____ Common Ratio: _____</p>	<p>The measures of the sides of $\triangle LMN$ are 3, 7, & 9. The measures of the sides of $\triangle RST$ are 21, 49, and 63. Are the two triangles similar? If so, what is the common ratio?</p>	
<p>10. Similar? YES or NO If yes, HOW? _____ Common Ratio: _____</p>	<p>The measures of two sides of $\triangle ABC$ are 3 & 4, and the measure of the included angle is 62°. The measures of two sides of $\triangle DEF$ are 27 & 36, and the measure of the included angle is 62°. Are the two triangles similar? If so, what is their common ratio?</p>	