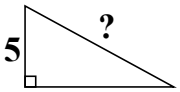
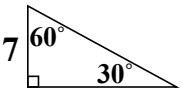
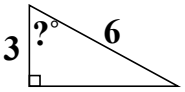
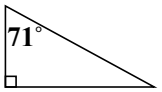
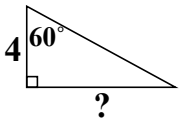
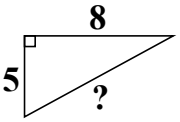
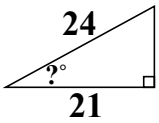
Name: _____ Per: ____

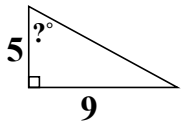
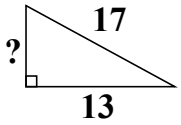
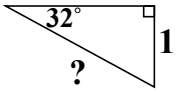
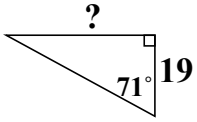
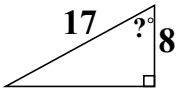
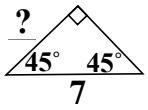
When to Use Trigonometry

If you have two parts of a right triangle (not including the right angle), then you can find any other part of the triangle.

				
If you **have**…	**2 sides**	**One side & 30-60-90 or 45-45-90**	**Two sides**	**One side and one angle**
And you **want**…	**A side**	**A side**	**An angle**	**A side**
Then you can **use**…	**Pythagorean Theorem**	**Special Triangles**	**Trigonometry**	**Trigonometry**
Which **looks like**…	$a^2 + b^2 = c^2$	Angle Equals / Opposite equals 30° : x 60° : $x\sqrt{3}$ 90° : $2x$ 45° : x 45° : x 90° : $x\sqrt{2}$	**SOH** $\sin(ANGLE) = \frac{opp}{hyp}$ **CAH** $\cos(ANGLE) = \frac{adj}{hyp}$ **TOA** $\tan(ANGLE) = \frac{opp}{adj}$	**SOH** $\sin(ANGLE) = \frac{opp}{hyp}$ **CAH** $\cos(ANGLE) = \frac{adj}{hyp}$ **TOA** $\tan(ANGLE) = \frac{opp}{adj}$

For each right triangle given below, fill in the requested information *just like it was written in the table above.* DO NOT SOLVE!

	1. 	2. 	3. 
I HAVE…			
I WANT…			
I'LL USE…			
IT LOOKS LIKE…			

	4. 	5. 	6. 
I HAVE…			
I WANT…			
I'LL USE…			
IT LOOKS LIKE…			
	7. 	8. 	9. 
I HAVE…			
I WANT…			
I'LL USE…			
IT LOOKS LIKE…			