

Strand: Algebra
Skill Addressed: Understanding Ratio
Activity: Trigonometric Ratios

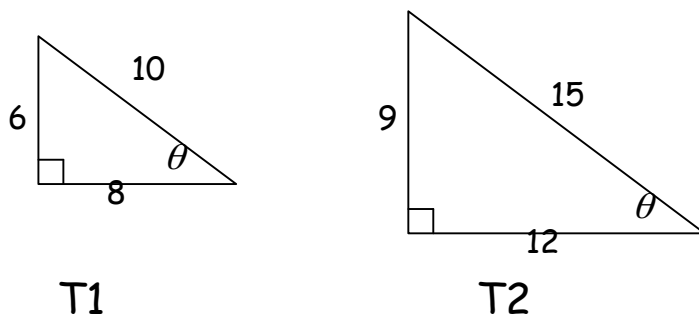
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More Ratios:

Sine, Cosine and Tangent [AKA sin, cos, tan] of an angle – usually Theta [θ] are also ratios – they are called Trig Ratios... $\sin \theta$, $\cos \theta$, $\tan \theta$.

It's important for you to know that they are ratios of sides of triangles.

So, the lengths of the sides of triangle are of ultimate importance – they make up the trig ratio!



If the same-shaped triangle is expanded to make a larger one, these triangles are called similar because their angles are the same. Here, the large one is a dilatation of the smaller one.

For Example: If you and your friend have the exact same triangle picture on your iPads and you **zoom in** on one of them, they are still the same shape, so they are similar triangles.

Consider the two triangles above:

Triangle T1	Triangle T2
$\sin \theta =$	$\sin \theta =$
$\cos \theta =$	$\cos \theta =$
$\tan \theta =$	$\tan \theta =$

Carefully explain what you notice! _____

