

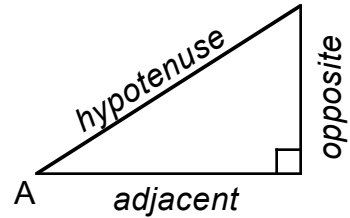
Honors Geometry

Angle Ratios

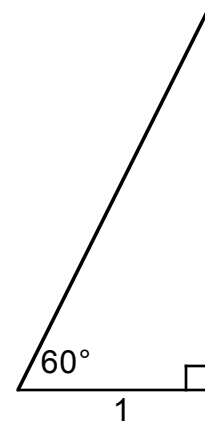
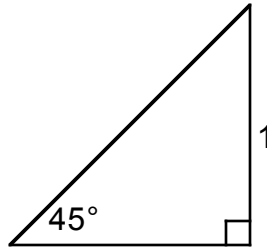
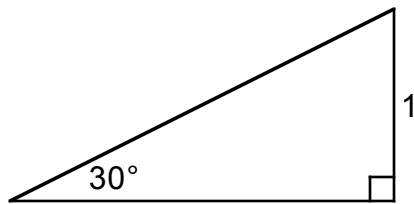
Name: _____

In a given right triangle we may choose one of the acute angles as a *reference angle*. The sides are then named relative to this angle as:

adjacent - the leg adjacent to the reference angle
opposite - the leg across from the reference angle
hypotenuse - across from the right angle



1. For each triangle below with the indicated reference angle, find the lengths of the remaining sides.



2. Complete the ratios in the table below.
Make your entries as decimals accurate to four places.

	opp / hyp	adj / hyp	opp / adj
30°			
45°			
60°			

3. How would your ratios change if each of the original triangles was *doubled* in size?