Name:	Hour:	Date:	
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45° - 45° - 90° Special Right Triangles Notes

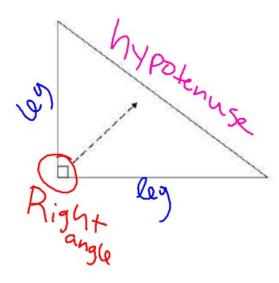
In middle school you learn some information about right triangles...

Recall the Parts of a Right Triangle:

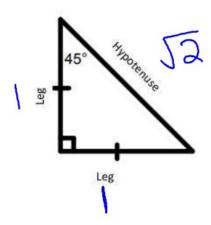
Right Angle: a 90° angle

longest side

- opposite of the right angle



A right triangle that has angle measures of $45^{\circ} - 45^{\circ} - 90^{\circ}$ is a "special right triangle". There is a pattern that allows us to know the value of the sides of triangles with little to no calculations!



*** Fun Facts about the $45^{\circ} - 45^{\circ} - 90^{\circ}$ Triangle ***

- · The legs are congruent · 45-45-90 triangles are isocoles

Examples: Use the pattern defined on the opposite side of this page to determine the missing side lengths of each of the following triangles. 2) 1) 25 leg lea 3) 4) 45° 10.12 5) 45° 6) 2nd base What is the distance between 1st base and 3rd base? 1st 3rd base 90 fee 90 feet