

Find a Missing Side in a Triangle

Is it a right triangle?

No

Similar Triangles;
Congruent Triangles;
Law of Sines;
Law of Cosines;
other methods

Yes

Is one of the angles 30, 60, or 45?

No

Are two sides known?

No

Are one side and one angle known?

No

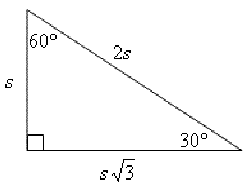
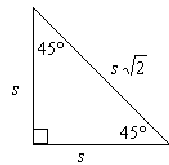
Is there an altitude to the hypotenuse?

No

Is the triangle similar or congruent to another triangle?

Yes

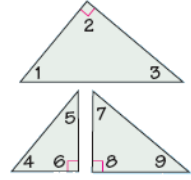
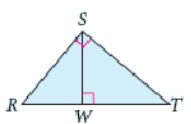
Use one of the below templates



Use Pythagorean Theorem or Pythagorean Triples

Use sin cos tan

Draw 3 similar right triangles, fill in the chart, and set up a proportion



Solve using congruent parts in the case of congruent triangles or with proportions in the case of similar triangles

	Small leg	Medium leg	Hypo-tenuse
$\Delta 1$			
$\Delta 2$			
$\Delta 3$			