$45^{\circ}-45^{\circ}-90^{\circ}$ Triangle:
In a $45^{\circ}-45^{\circ}-90^{\circ}$ Triangle, the hypotenuse is $\sqrt{2}$ times as long as each leg.


1. Find the missing sides:

$30^{\circ}-60^{\circ}-90^{\circ}$ Triangle:
In a $30^{\circ}-60^{\circ}-90^{\circ}$ Triangle, the hypotenuse is 2 times longer than the shortest leg and the longest leg is $\sqrt{3}$ times as long as the shortest leg.

2. Find the missing sides:


### 8.3 Special Right Triangles

Geometry CP
3. Determine the length of the leg of a $45^{\circ}-45^{\circ}-90^{\circ}$ triangle with a hypotenuse length of 11 .
4. An equilateral triangle has an altitude length of 18 feet. Determine the length of a side of the triangle.

