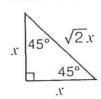
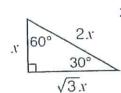
## **Special Right Triangles**

## Remember

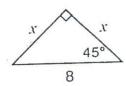


In a 45°-45°-90° right triangle, the hypotenuse is √2 times as long as each leg.



In a 30°-60°-90° right triangle, the hypotenuse is twice as long as the short leg. The long leg is √3 times as long as the short leg.

Example: Find the missing lengths.



$$\sqrt{2} x = 8$$

$$x = \frac{8}{\sqrt{2}}$$

$$= \frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$$

$$= \frac{8\sqrt{2}}{2}$$

$$= 4\sqrt{2}$$

Use the 30°-60°-90° and the 45°-45°-90° triangle relationships to solve for the missing sides. Follow your answers in alphabetical order through the maze.

