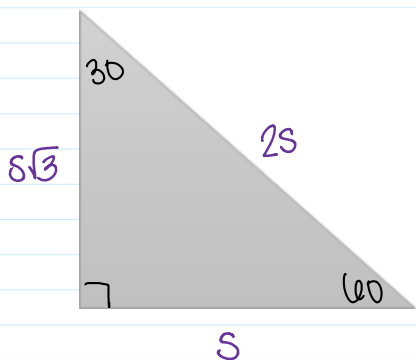
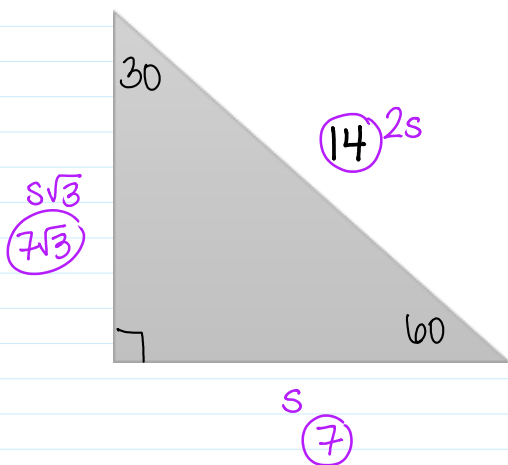


30/60/90 Triangles :

Give you the ability to find all the sides of a right triangle given only one side. Answers are exact as well.

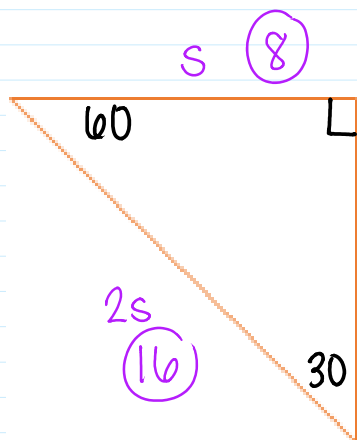
STEPS

1. Write "formulas" around triangle.
2. solve for s.
3. substitute back in.



$$\frac{2s}{2} = \frac{14}{2}$$

$$s = 7$$

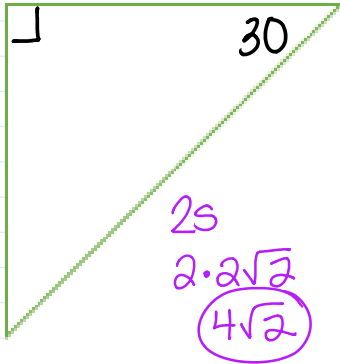


$$\frac{s\sqrt{3}}{\sqrt{3}} = \frac{8\sqrt{3}}{\sqrt{3}}$$

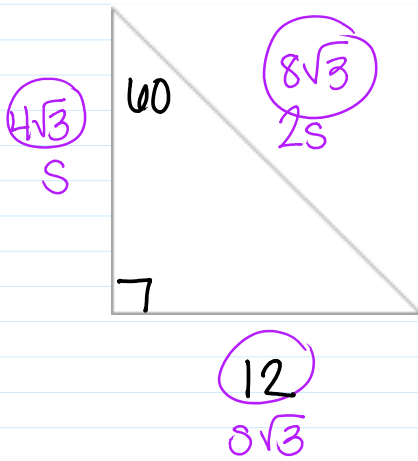
$$s = 8$$

$$\frac{2\sqrt{2} \cdot \sqrt{3}}{s\sqrt{3}} = 2\sqrt{6}$$

$$s = 2\sqrt{2}$$



$$s = 2\sqrt{2}$$



$$\frac{s\sqrt{3}}{\sqrt{3}} = \frac{12}{\sqrt{3}}$$

$$s = \frac{12}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{12\sqrt{3}}{3} = 4\sqrt{3}$$