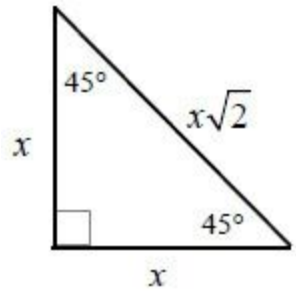
The 45-45-90 triangle



If you know the length of one leg

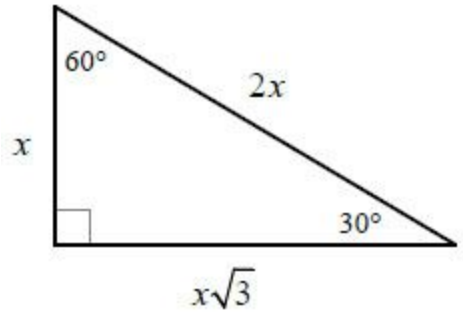
All legs are equal, so **the other leg will be the same length**

To get the hypotenuse, **multiply by** $\sqrt{2}$

If you know the length of the hypotenuse

To get the length of both legs, **Divide by 2 and multiply by** $\sqrt{2}$

The 30-60-90 triangle



If you know the length of the short leg.

To get the long leg, **Multiply by** $\sqrt{3}$
To get the hypotenuse, **Multiply by 2**

If you know the length of the long leg.

To get the short leg, **Divide by 3 and Multiply by** $\sqrt{3}$ or **Divide by** $\sqrt{3}$ (whichever is easier)

To get the hypotenuse, **Multiply by ⅔ and multiply by** $\sqrt{3}$

If you know the length of the hypotenuse

To get the short leg, **Divide by 2**

To get the long leg, **Divide by 2 and multiply by** $\sqrt{3}$