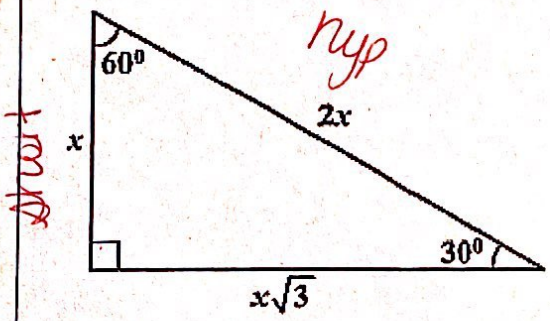
Special Right Triangles Graphic Organizer

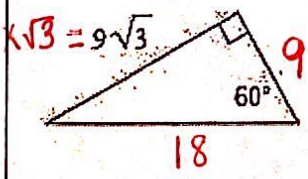
30-60-90 Triangles



shortest

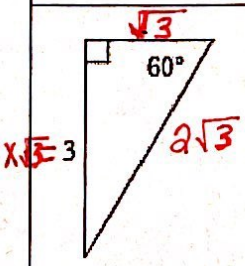
hyp

longer



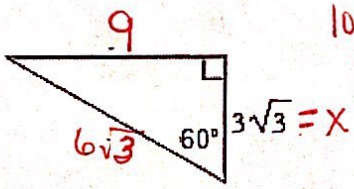
$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{9\sqrt{3}}{\sqrt{3}}$

$x = 9$



$\frac{x\sqrt{3}}{\sqrt{3}} = \frac{3}{\sqrt{3}}$

$x = \frac{3}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{3\sqrt{3}}{3} = \sqrt{3}$



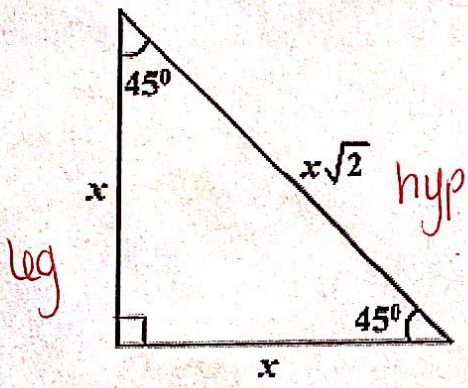
long leg $= 3\sqrt{3} \cdot \sqrt{3}$

$3\sqrt{9}$

$3 \cdot 3$

9

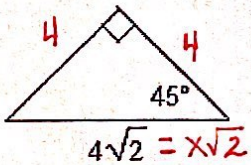
45-45-90 Triangles



leg

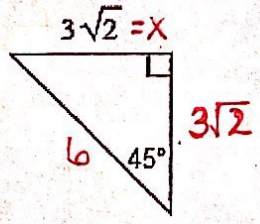
hyp

leg



$\frac{4\sqrt{2}}{\sqrt{2}} = \frac{x\sqrt{2}}{\sqrt{2}}$

$x = 4$

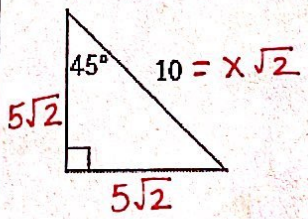


hyp $= 3\sqrt{2} \cdot \sqrt{2}$

$= 3\sqrt{4}$

$= 3 \cdot 2$

$= 6$



$\frac{10}{\sqrt{2}} = \frac{x\sqrt{2}}{\sqrt{2}}$

$x = \frac{10}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{10\sqrt{2}}{2} = 5\sqrt{2}$