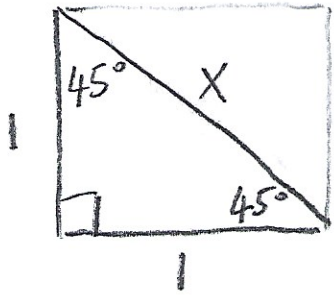
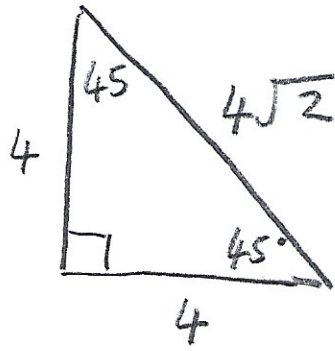
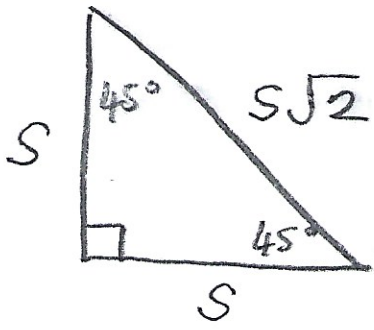


45° 45° 90° Triangle



$$a^2 + b^2 = c^2$$
$$1^2 + 1^2 = X^2$$
$$2 = X^2$$
$$\sqrt{2} = X$$

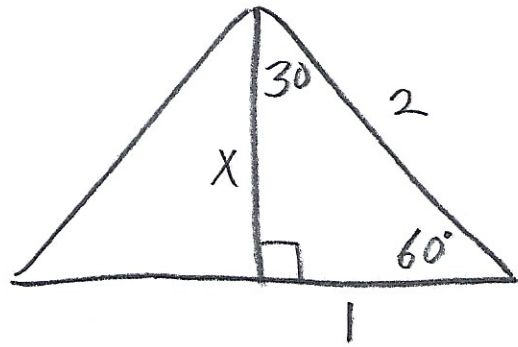
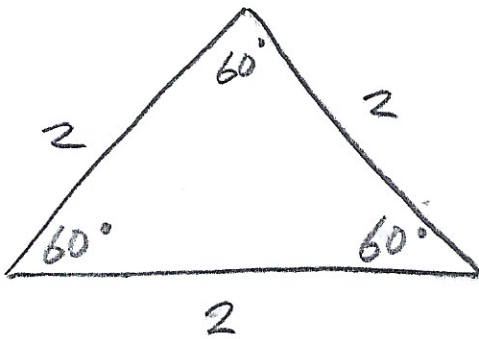
EXAMPLE



RATIO OF
SIDE LENGTHS

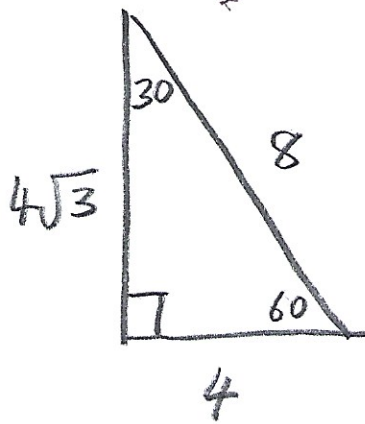
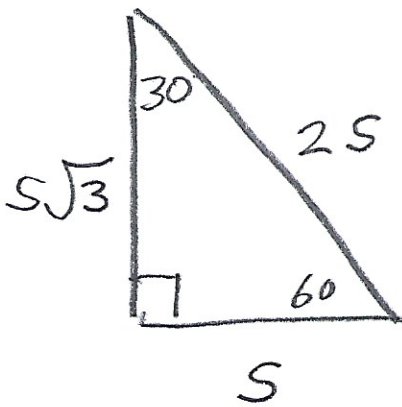
$$S : S : S\sqrt{2}$$

30° 60° 90° Triangle.



$$\begin{aligned} a^2 + b^2 &= c^2 \\ x^2 + 1^2 &= 2^2 \\ x^2 &= 2^2 - 1^2 \\ x^2 &= 3 \\ x &= \sqrt{3} \end{aligned}$$

EXAMPLE



RATIO OF
SIDE LENGTHS

$$5 : 5\sqrt{3} : 10$$