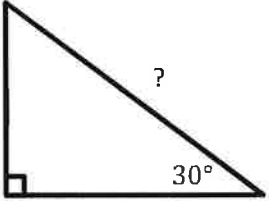
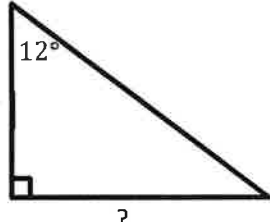
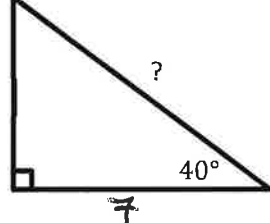
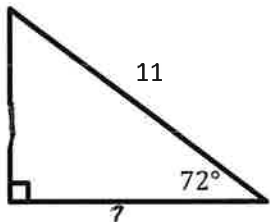
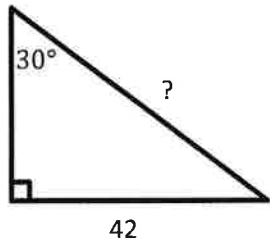


Name: KEY

Trigonometry of Right Angle Triangles – SOH CAH TOASolve for the missing side of the right angle triangle, round to the nearest ^{tenth} whole number.

1.		<p>Have OPP need HYP so SOH</p> $\sin 30^\circ = \frac{12}{x}$ $x = \frac{12}{\sin 30}$ $x(\sin 30) = 12$ $x = 24$
2.		<p>Have ADJ need OPP so TOA</p> $\tan 12 = \frac{x}{7}$ $7(\tan 12) = x$ $x = 1.5$
3.		<p>Have ADJ need HYP so CAH</p> $\cos 40 = \frac{7}{x}$ $x(\cos 40) = 7$ $x = \frac{7}{\cos 40}$ $x = 9.1$
4.		<p>Have HYP need ADJ so CAH</p> $\cos 72 = \frac{x}{11}$ $11(\cos 72) = x$ $x = 3.4$
5.		<p>Have OPP need HYP so SOH</p> $\sin 30 = \frac{42}{x}$ $x(\sin 30) = 42$ $x = \frac{42}{\sin 30}$ $x = 84$

Triangles not to scale, trust the math