



# Fill In The Blanks...



## Finding Lengths Using Trigonometry

Labelled diagram	Choose ratio	Substitute into formula	Rearrange formula	Answer (1dp)
	sin	$\sin 38 = \frac{x}{11}$	$x = 11 \times \sin 38$	6.8 cm
	tan	$\tan 51 = \frac{x}{6}$	$x = 6 \times \tan 51$	7.4 cm
	cos	$\cos 63 = \frac{x}{37}$	$x = 37 \times \cos 63$	16.8 mm
	cos	$\cos 28 = \frac{8}{x}$	$x = \frac{8}{\cos 28}$	9.1 cm
	tan	$\tan 71 = \frac{2.5}{x}$	$x = \frac{2.5}{\tan 71}$	0.86 m
	sin	$\sin 49 = \frac{13}{x}$	$x = \frac{13}{\sin 49}$	17.2 cm
	cos	$\cos 35 = \frac{x}{5.7}$	$x = 5.7 \times \cos 35$	4.7 cm
	tan	$\tan 68 = \frac{7}{x}$	$x = \frac{7}{\tan 68}$	2.8 cm