

Solutions sheet No. 104			Mixed Reciprocal Trig Ratio - Find a Side 1					
Working using $H = \frac{O}{\sin A}$ or $H = \frac{O}{\cos A}$ or $A = \frac{O}{\tan A}$								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	1 Dec. Place	Solution
1		10	a	28°	$a = 10/\cos 28^\circ$	11.325701	11.3	$a = 11.3$
2	20		b	42°	$b = 20/\sin 42^\circ$	29.889531	29.9	$b = 29.9$
3	8	c		51°	$c = 8/\tan 51^\circ$	6.4782723	6.5	$c = 6.5$
4	7		d	38°	$d = 7/\sin 38^\circ$	11.369885	11.4	$d = 11.4$
5	35	e		53°	$e = 35/\tan 53^\circ$	26.374392	26.4	$e = 26.4$
6	2.7		f	70°	$f = 2.7/\sin 70^\circ$	2.87328	2.9	$f = 2.9$
7	110	g		25°	$g = 110/\tan 25^\circ$	5.7901687	5.8	$g = 5.8$
8	6.5	h		78°	$h = 6.5/\cos 78^\circ$	23.381222	23.4	$h = 23.4$
9		11	i	43°	$i = 11/\cos 43^\circ$	15.040602	15	$i = 15$
10		120	j	60°	$j = 120/\cos 60^\circ$	240	240	$j = 240$
11	6.2		k	47°	$k = 6.2/\sin 47^\circ$	8.4774303	8.5	$k = 8.5$
12	5	l		49°	$l = 5/\tan 49^\circ$	4.3464337	4.3	$l = 4.3$
13	16		m	75°	$m = 16/\sin 75^\circ$	16.564419	16.6	$m = 16.6$
14	61	n		18°	$n = 61/\tan 18^\circ$	187.7387	187.7	$n = 187.7$
15		6.2	p	54°	$p = 6.2/\cos 54^\circ$	10.54807	10.5	$p = 10.5$
16	8		q	30°	$q = 8/\sin 30^\circ$	16	16	$q = 16$
17		7.5	r	47°	$r = 7.5/\cos 47^\circ$	10.997094	11	$r = 11$
18	32		s	62°	$s = 32/\sin 62^\circ$	36.242242	36.2	$s = 36.2$
19	2.75	t		77°	$t = 2.75/\tan 77^\circ$	0.6348875	0.6	$t = 0.6$
20	21.3		u	47°	$u = 21.3/\sin 47^\circ$	29.124075	29.1	$u = 29.1$