

## Solutions for GeoWorkSheet No. 94

Solutions sheet No. 94			Mixed Trig Ratio - Find an Angle 2					
Working using $\sin A = \frac{O}{H}$ or $\cos A = \frac{A}{H}$ or $\tan A = \frac{O}{A}$								
No.	Opp	Adj	Hyp	Angle	Equation	Calculator	Rounded	Solution
1	25		35	$a$	$\sin a = 25/35$	45.584691	$46^\circ$	$a^\circ = 46^\circ$
2		42	60	$b$	$\cos b = 42/60$	45.572996	$46^\circ$	$b^\circ = 46^\circ$
3	43		60	$c$	$\sin c = 43/60$	45.779956	$46^\circ$	$c^\circ = 46^\circ$
4		2.9	5.6	$d$	$\cos d = 2.9/5.6$	58.811378	$59^\circ$	$d^\circ = 59^\circ$
5		16	28	$e$	$\cos e = 16/28$	55.150095	$55^\circ$	$e^\circ = 55^\circ$
6	15		17	$f$	$\sin f = 15/17$	61.927513	$62^\circ$	$f^\circ = 62^\circ$
7		91	120	$g$	$\cos g = 91/120$	40.682512	$41^\circ$	$g^\circ = 41^\circ$
8	32	60		$h$	$\tan h = 32/60$	28.072487	$28^\circ$	$h^\circ = 28^\circ$
9	25	33		$i$	$\tan i = 25/33$	37.146687	$37^\circ$	$i^\circ = 37^\circ$
10		66	94	$j$	$\cos j = 66/94$	45.402043	$45^\circ$	$j^\circ = 45^\circ$
11	68	74		$k$	$\tan k = 68/74$	42.580491	$43^\circ$	$k^\circ = 43^\circ$
12	12		19	$l$	$\sin l = 12/19$	39.166711	$39^\circ$	$l^\circ = 39^\circ$
13	125	60		$m$	$\tan m = 125/60$	64.358994	$64^\circ$	$m^\circ = 64^\circ$
14	200		275	$n$	$\sin n = 200/275$	46.658242	$47^\circ$	$n^\circ = 47^\circ$
15		6.2	9.4	$p$	$\cos p = 6.2/9.4$	48.732573	$49^\circ$	$p^\circ = 49^\circ$
16		3.9	5.7	$q$	$\cos q = 3.9/5.7$	46.826449	$47^\circ$	$q^\circ = 47^\circ$
17	7.9	5.5		$r$	$\tan r = 7.9/5.5$	55.154267	$55^\circ$	$r^\circ = 55^\circ$
18	26		41	$s$	$\sin s = 26/41$	39.356699	$39^\circ$	$s^\circ = 39^\circ$
19	23		35	$t$	$\sin t = 23/35$	41.082333	$41^\circ$	$t^\circ = 41^\circ$
20	300	180		$u$	$\tan u = 300/180$	59.036243	$59^\circ$	$u^\circ = 59^\circ$