

Solutions for GeoWorkSheet No. 101

Solutions sheet No. 101		Reciprocal Sine Ratio - Find an Side 1 (degrees & minutes)						
Working using $\sin A = \frac{O}{H}$ or $H = \frac{O}{\sin A}$								
No.	Opp	Adj	Hyp	Angle	Equation	Calulator	Rounded	Solution
1	600	<i>a</i>		37°32'	$a = 600/\sin 37^\circ 32'$	984.86124	984.9	$a = 984.9$
2	35	<i>b</i>		35°41'	$b = 35/\sin 35^\circ 41'$	60.002918	60	$b = 60$
3	62	<i>c</i>		22°47'	$c = 62/\sin 22^\circ 47'$	160.10436	160.1	$c = 160.1$
4	750	<i>d</i>		48°16'	$d = 750/\sin 48^\circ 16'$	1005.0237	1005	$d = 1005$
5	18	<i>e</i>		31°50'	$e = 18/\sin 31^\circ 50'$	34.126448	34.1	$e = 34.1$
6	350	<i>f</i>		37°45'	$f = 350/\sin 37^\circ 45'$	571.69246	571.7	$f = 571.7$
7	480	<i>g</i>		25°39'	$g = 480/\sin 25^\circ 39'$	1108.8713	1108.9	$g = 1108.9$
8	8.25	<i>h</i>		68°40'	$h = 8.25/\sin 68^\circ 40'$	8.8568754	8.9	$h = 8.9$
9	900	<i>i</i>		41°50'	$i = 900/\sin 41^\circ 50'$	1349.394	1349.4	$i = 1349.4$
10	45	<i>j</i>		64°14'	$j = 45/\sin 64^\circ 14'$	49.968252	50	$j = 50$
11	280	<i>k</i>		59°55'	$k = 280/\sin 59^\circ 55'$	323.58822	323.6	$k = 323.6$
12	950	<i>l</i>		68°5'	$l = 950/\sin 68^\circ 5'$	1024.0073	1024	$l = 1024$
13	250	<i>m</i>		38°57'	$m = 250/\sin 38^\circ 57'$	397.68265	397.7	$m = 397.7$
14	65	<i>n</i>		48°28'	$n = 65/\sin 48^\circ 28'$	86.832215	86.8	$n = 86.8$
15	205	<i>p</i>		34°35'	$p = 205/\sin 34^\circ 35'$	361.16711	361.2	$p = 361.2$
16	1525	<i>q</i>		73°35'	$q = 1525/\sin 73^\circ 35'$	1589.8138	1589.8	$q = 1589.8$
17	1500	<i>r</i>		54°13'	$r = 1500/\sin 54^\circ 13'$	1849.0351	1849	$r = 1849$
18	6000	<i>s</i>		70°14'	$s = 6000/\sin 70^\circ 14'$	6375.6692	6375.7	$s = 6375.7$
19	75	<i>t</i>		61°17'	$t = 75/\sin 61^\circ 17'$	85.518187	85.5	$t = 85.5$
20	345	<i>u</i>		63°24'	$u = 345/\sin 63^\circ 24'$	385.83947	385.8	$u = 385.8$