

Solutions for GeoWorkSheet No. 96

Solutions sheet No. 96		Mixed Trig Ratio - Find an Angle DMS 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	10	12		a	$\tan a = 10/12$	39.80557	39°48'	$a = 39°48'$
2	50		65	b	$\sin b = 50/65$	50.28486	50°17'	$b = 50°17'$
3	70	95		c	$\tan c = 70/95$	36.38435	36°23'	$c = 36°23'$
4		20	34	d	$\cos d = 20/34$	53.96812	53°58'	$d = 53°58'$
5	5		9	e	$\sin e = 5/9$	33.74899	33°45'	$e = 33°45'$
6		7	12	f	$\cos f = 7/12$	54.31467	54°19'	$f = 54°19'$
7	40		70	g	$\sin g = 40/70$	34.8499	34°51'	$g = 34°51'$
8	35	23		h	$\tan h = 35/23$	56.68937	56°41'	$h = 56°41'$
9	24		42	i	$\sin i = 24/42$	34.8499	34°51'	$i = 34°51'$
10	32	22		j	$\tan j = 32/22$	55.49148	55°29'	$j = 55°29'$
11		35	49	k	$\cos k = 35/49$	44.41531	44°25'	$k = 44°25'$
12	26	25		l	$\tan l = 26/25$	46.1233	46°7'	$l = 46°7'$
13		65	145	m	$\cos m = 65/145$	63.36688	63°22'	$m = 63°22'$
14	80		105	n	$\sin n = 80/105$	49.63241	49°38'	$n = 49°38'$
15		84	130	p	$\cos p = 84/130$	49.74776	49°45'	$p = 49°45'$
16	30	16		q	$\tan q = 30/16$	61.92751	61°56'	$q = 61°56'$
17	15		22	r	$\sin r = 15/22$	42.98589	42°59'	$r = 42°59'$
18	7.5		9.5	s	$\sin s = 7.5/9.5$	52.13635	52°8'	$s = 52°8'$
19	2.3		4.1	t	$\sin t = 2.3/4.1$	34.12329	34°7'	$t = 34°7'$
20		625	1000	u	$\cos u = 625/1000$	51.31781	51°19'	$u = 51°19'$

[Return to top](#)