

Solutions for GeoWorkSheet No. 95

Solutions sheet No. 95			Mixed Trig Ratio - Find an Angle DMS 1					
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	Converted	Solution
1		17	20	a	$\cos a = 17/20$	31.78833	$31^\circ 47'$	$a = 31^\circ 47'$
2	45		60	b	$\sin b = 45/60$	48.59038	$48^\circ 35'$	$b = 48^\circ 35'$
3		30	50	c	$\cos c = 30/50$	53.1301	$53^\circ 8'$	$c = 53^\circ 8'$
4	48	52		d	$\tan d = 48/52$	42.70939	$42^\circ 43'$	$d = 42^\circ 43'$
5	25	15		e	$\tan e = 25/15$	59.03624	$59^\circ 2'$	$e = 59^\circ 2'$
6		6	13	f	$\cos f = 6/13$	62.51357	$62^\circ 31'$	$f = 62^\circ 31'$
7	60		75	g	$\sin g = 60/75$	53.1301	$53^\circ 8'$	$g = 53^\circ 8'$
8		25	32	h	$\cos h = 25/32$	38.62483	$38^\circ 37'$	$h = 38^\circ 37'$
9	21	32		i	$\tan i = 21/32$	33.27489	$33^\circ 16'$	$i = 33^\circ 16'$
10	25		36	j	$\sin j = 25/36$	43.98296	$43^\circ 59'$	$j = 43^\circ 59'$
11	33		48	k	$\sin k = 33/48$	43.43254	$43^\circ 26'$	$k = 43^\circ 26'$
12	35	23		l	$\tan l = 35/23$	56.68937	$56^\circ 41'$	$l = 56^\circ 41'$
13	125		175	m	$\sin m = 125/175$	45.58469	$45^\circ 35'$	$m = 45^\circ 35'$
14		90	220	n	$\cos n = 90/220$	65.85226	$65^\circ 51'$	$n = 65^\circ 51'$
15	110	88		p	$\tan p = 110/88$	51.34019	$51^\circ 20'$	$p = 51^\circ 20'$
16		28	49	q	$\cos q = 28/49$	55.1501	$55^\circ 9'$	$q = 55^\circ 9'$
17	9	6		r	$\tan r = 9/6$	56.30993	$56^\circ 19'$	$r = 56^\circ 19'$
18		45	75	s	$\cos s = 45/75$	53.1301	$53^\circ 8'$	$s = 53^\circ 8'$
19		1750	3000	t	$\cos t = 1750/3000$	54.31467	$54^\circ 19'$	$t = 54^\circ 19'$
20	0.7		0.8	u	$\sin u = 0.7/0.8$	61.04498	$61^\circ 3'$	$u = 61^\circ 3'$

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