

**GEN 2.6 CONVERSION TABLES**

NM to KM		KM to NM		Feet to Metres		Metres to Feet	
1 NM = 1.8520 KM 1NM = 1.1508 Statute Miles		1 KM = 0.54 NM 1KM = 0.6214 Statute Miles		1 Foot = 0.3048 Metres		1 Metre = 3.2808 Feet	
1	1.85	1	0.54	1	0.305	1	3.281
2	3.43	2	1.08	2	0.610	2	6.562
3	5.56	3	1.62	3	0.914	3	9.843
4	7.41	4	2.16	4	1.219	4	13.123
5	9.26	5	2.70	5	1.524	5	16.404
6	11.11	6	3.24	6	1.829	6	19.685
7	12.96	7	3.78	7	2.134	7	22.966
8	14.82	8	4.32	8	2.438	8	26.247
9	16.67	9	4.86	9	2.743	9	29.528
10	18.52	10	5.40	10	3.048	10	32.808
20	37.04	20	10.80	20	6.096	20	65.617
30	55.56	30	16.20	30	9.144	30	98.425
40	74.08	40	21.60	40	12.192	40	131.234
50	92.60	50	27.00	50	15.240	50	164.042
60	111.12	60	32.40	60	18.288	60	196.850
70	129.64	70	37.80	70	21.336	70	229.659
80	148.16	80	43.20	80	24.384	80	262.467
90	166.68	90	48.60	90	27.432	90	295.276
100	185.20	100	54.00	100	30.48	100	328.084
200	370.40	200	108.00	200	60.96	200	656.168
300	555.60	300	162.00	300	91.44	300	984.252
400	740.80	400	216.00	400	121.92	400	1312.336
500	926.00	500	270.00	500	152.4	500	1640.420
600	1111.20	600	324.00	1000	304.8	1000	3280.840
700	1296.40	700	378.00	2000	609.6	2000	6561.680
800	1481.60	800	432.00	3000	914.4	3000	9842.520
900	1666.80	900	486.00	4000	1219.2	4000	13123.360
1000	1852.00	1000	540.00	5000	1524.0	5000	16404.199

KG to LBS		LBS to KG	
1 KG = 2.2046 LBS		1 LB = 0.4536 KG	
1	2.205	1	0.454
2	4.409	2	0.907
3	6.614	3	1.361
4	8.818	4	1.814
5	11.023	5	2.268
6	13.228	6	2.722
7	15.432	7	3.175
8	17.637	8	3.629
9	19.842	9	4.082
10	22.046	10	4.536
20	44.092	20	9.072
30	66.139	30	13.608
40	88.185	40	18.144
50	110.231	50	22.680
60	132.277	60	27.216
70	154.324	70	31.751
80	176.370	80	36.287
90	198.416	90	40.823
100	220.462	100	45.359
1000 kgs = 1 metric tonne		1 metric tonne = 1000 kgs	

**CLIMB GRADIENT TABLE**

In order to assure obstacle clearance, controlled airspace containment or safe integration of procedures, some Standard Instrument Departure Procedures in the I.R.Iran require Climb Gradients in excess of 3.3% to be achieved. Procedure design Gradients are annotated as percentage climb gradients where necessary. The table below provides a conversion to rates of climb for various speeds.

		ground speed (kt)	75	100	150	180	200	210	250
Climb Gradient %	(ft/nm)	rate of climb (ft/min)							
3.9%	237 ft/nm		297	395	593	711	790	830	988
4.0%	243 ft/nm		304	405	608	730	810	851	1013
4.1%	249 ft/nm		311	415	623	748	830	872	1038
4.2%	255 ft/nm		319	426	638	766	851	894	1064
4.3%	261 ft/nm		327	436	654	784	871	915	1090
4.4%	268 ft/nm		335	447	670	803	892	936	1115
4.5%	274 ft/nm		343	457	685	821	912	958	1140
4.6%	280 ft/nm		350	467	700	839	932	979	1165
4.7%	286 ft/nm		358	477	715	857	953	1000	1191
4.8%	292 ft/nm		365	487	730	876	973	1021	1216
4.9%	298 ft/nm		373	497	745	894	993	1043	1241
5.0%	304 ft/nm		380	507	760	912	1013	1067	1267
5.1%	310 ft/nm		388	517	775	930	1034	1085	1292
5.2%	316 ft/nm		395	527	790	948	1054	1107	1317
5.3%	322 ft/nm		403	537	805	966	1074	1128	1343
5.4%	328 ft/nm		410	547	821	985	1094	1149	1368
5.5%	334 ft/nm		418	557	835	1002	1115	1170	1393
5.6%	340 ft/nm		426	567	851	1021	1135	1192	1419
5.7%	347 ft/nm		434	578	868	1041	1155	1213	1444
5.8%	353 ft/nm		441	588	883	1059	1175	1234	1469
5.9%	359 ft/nm		448	598	897	1077	1196	1256	1495
6.0%	365 ft/nm		456	608	913	1095	1216	1277	1520
6.1%	371 ft/nm		464	618	927	1113	1236	1298	1545
6.2%	377 ft/nm		471	628	942	1131	1257	1319	1571
6.3%	383 ft/nm		479	638	958	1149	1277	1341	1596
6.4%	389 ft/nm		486	649	973	1167	1297	1362	1621
6.5%	395 ft/nm		494	659	988	1186	1317	1383	1647
6.6%	401 ft/nm		501	669	1003	1204	1338	1404	1672
6.7%	407 ft/nm		509	679	1018	1222	1358	1426	1697
6.8%	413 ft/nm		517	689	1034	1246	1378	1447	1723
6.9%	420 ft/nm		524	699	1049	1259	1398	1468	1748
7.0%	426 ft/nm		533	709	1064	1277	1419	1490	1773
7.1%	432 ft/nm		540	719	1079	1295	1439	1511	1799
7.2%	438 ft/nm		547	730	1094	1313	1459	1532	1824
7.3%	444 ft/nm		555	740	1110	1332	1480	1553	1849
7.4%	450 ft/nm		562	750	1125	1350	1500	1575	1875
7.5%	456 ft/nm		570	760	1140	1368	1520	1596	1900
7.6%	462 ft/nm		578	770	1155	1386	1540	1617	1925
7.7%	468 ft/nm		585	780	1170	1404	1561	1639	1951
7.8%	474 ft/nm		593	790	1186	1423	1581	1660	1976
7.9%	480 ft/nm		600	800	1200	1441	1601	1681	2001
8.0%	486 ft/nm		608	810	1216	1458	1621	1702	2027