

Navigation Computer Practice Questions

Conversion Nautical Miles / Knots to Statute Miles / mph to Kilometres / Kilo p.hr

1	90 mph to kts & kph	6	130 S.M to N.M & KM
2	115 kts to mph & kph	7	105 N.M to S.M & KM
3	120 mph to kts & kph	8	120 M.M to S.M & KM
4	205 kph to kts & mph	9	150 KM to N.M & S.M
5	310 kph to kts & mph	10	110 S.M to N.M & KM

Answers To The Nearest Whole Number

Calculation Of time And Fuel Consumption

No.	1	2	3	4	5	6	7	8	9	10
Ground Speed	100 kts	100 mph	210 kph	165 kts	120 mph	370 kph	105 mph	245 kts	90 kts	95 mph
Distance	78 nm	81 nm	260 nm	297 nm	262 sm	560 sm	305 sm	522 sm	170 nm	35 sm
Fuel Flow / gph	8	5	9	16	11	22	8	29	6	4

Answers – Time to the nearest minute, fuel to the nearest ¼ gallon

Calculation of Heading (M), Ground Speed, Time

	1	2	3	4	5	6	7	8	9	10
TRACK	224° T	342°T	007°T	201°T	153°T	118°T	086°T	354°T	231°T	182°T
W / V	290 / 15	050 / 35	320 / 22	080 / 20	360 / 18	225 / 28	070 / 15	140 / 15	195 / 20	030 / 10
TAS	125 kts	120 mph	142 kts	95 kts	173 mph	90 mph	111 mph	82 kts	115 kts	160 kts
VARIATION	8°W	11°E	14°W	6°E	8°E	12°W	7°W	5°E	13°W	9°E
DISTANCE	210 nm	122 nm	98 sm	250 sm	487 sm	73 nm	342 nm	67 sm	147 nm	573 nm
FUEL FLOW	11 gph	8 gph	14 gph	5 gph	17 gph	4 gph	7 gph	6 gph	9 gph	21 gph
	11	12	13	14	15	16	17	18	19	20
TRACK	274° T	299°T	136°T	167°T	032°T	316°T	008°T	347°T	069°T	222°T
W / V	260 / 32	020 / 19	265 / 15	350 / 45	065 / 45	110 / 20	050 / 27	190 / 25	070 / 12	110 / 16
TAS	129 mph	102 kts	110 kts	170 kts	85 kts	130 mph	134 kts	109 kts	90 kts	90 mph
VARIATION	10°E	13°E	6°W	17°W	14°W	7°E	8°E	10°W	8°W	13°W
DISTANCE	76 nm	136 sm	103 nm	707 nm	180 sm	110 sm	80 nm	25 nm	32 nm	41 sm
FUEL FLOW	12 gph	10 gph	11 gph	23 gph	5 gph	8.5 gph	7.5 gph	4.5 gph	5.5 gph	6.5 gph

Answers – time to the nearest minute, fuel to the nearest gallon (rounded up)

Answers:**Conversion Nautical Miles / Knots to Statute Miles / MPH to Kilometres / K.P.H**

1.	78 kts / 145 kph	6.	113 nm / 210 km
2.	132 mph / 213kph	7.	121/2 sm / 195 km
3.	105 kts / 194 kph	8.	138 sm / 222 km
4.	112 kts / 127 mph	9.	81 nm / 93 sm
5.	167 kts / 192 mph	10.	96 nm / 178 km

Calculation of Time and Fuel Consumption

1.	47 mins / 6.3 galls	6.	2 hrs 26 mins / 53.5 galls
2.	56 mins / 4.7 galls	7.	2 hrs 54 mins / 23.25 galls
3.	2 hrs 18 mins / 20.7 galls	8.	1 hr 52 mins / 54.25 galls
4.	1 hr 48 mins / 29 galls	9.	1 hr 54 mins / 11.5 galls
5.	2 hrs 11 mins / 24 galls	10.	22 mins / 1.5 galls

Calculation of Heading (M), Ground Speed, Time and Fuel Consumption

	Heading		G / S		Time	Fuel cons.		Heading		G / S		Time	Fuel cons.
	T°	M°	kts	mph				Hours / Min	Galls	T°	M°		
1.	230	238	118		1:47	20	11.	270	260	81	98	0:57	12
2.	0	349	87	100	1:24	12	12.	309	296	97/98	113	1:14	13
3.	0	014	126	148	0:41	10	13.	142	148	119		0:52	10
4.	191	185	104	119	2:06	11	14.	166	183	215		3:18	76
5.	150	142	167	189	2:35	44	15.	043	057		58	3:07	16
								045	059	47		3:21	17
6.	138	150	81	94	0:54	4	16.	320	313	131	148	0:44 / 0:45	7
7.	084	091	82	97	4:11	30	17.	016	008	113		0:43	6
8.	006	001	105	117	0:34	4	18.	342	352	132		0:12	1
9.	225	238	98		1:30	14	19.	093	101	79		0:25	3
10.	180	171	169		3:24	72	20.	212	225 / 224	84	95	0:26	3