

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
0.1	1	9.7 years	9
0.1	2	19.4 years	38
0.1	4	38.7 years	154
0.1	8	77.5 years	620
0.1	16	155 years	2500
0.1	32	310 years	10 thousand
0.1	64	620 years	40 thousand
0.1	128	1240 years	160 thousand
0.1	250	2421 years	600 thousand
0.1	500	4842 years	2.4 million
0.1	1000	9700 years	10 million
0.1	2000	19400 years	39 million
0.1	4000	39000 years	155 million
0.1	8000	77500 years	620 million
0.1	16000	155 thousand years	2500 million
0.1	32000	310 thousand years	10 billion
0.1	64000	620 thousand years	40 billion
0.1	128000	1.24 million years	160 billion
0.1	250000	2.4 million years	640 billion
0.25	1	3.9 years	3
0.25	2	7.75 years	15
0.25	4	15.5 years	61
0.25	8	31 years	247
0.25	16	62 years	991
0.25	32	124 years	4000
0.25	64	250 years	16 thousand
0.25	128	500 years	63 thousand
0.25	250	970 years	242 thousand
0.25	500	1940 years	970 thousand
0.25	1000	3900 years	4 million
0.25	2000	7700 years	16 million
0.25	4000	15500 years	62 million
0.25	8000	31000 years	248 million
0.25	16000	62000 years	10 billion
0.25	32000	124000 years	40 billion
0.25	64000	1 quarter million years	160 billion
0.25	128000	half a million years	640 billion
0.25	250000	1 million years	2.5 trillion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
0.5	1	1.9 years	1
0.5	2	3.9 years	7
0.5	4	7.75 years	30
0.5	8	15.5 years	123
0.5	16	31 years	495
0.5	32	62 years	2000
0.5	64	124 years	7900
0.5	128	250 years	32 thousand
0.5	250	500 years	121 thousand
0.5	500	970 years	480 thousand
0.5	1000	1940 years	2 million
0.5	2000	3900 years	7.75 million
0.5	4000	7700 years	31 million
0.5	8000	15500 years	124 million
0.5	16000	31 thousand years	500 million
0.5	32000	62 thousand years	2 billion
0.5	64000	124 thousand years	8 billion
0.5	128000	1 quarter million years	32 billion
0.5	250000	half a million years	128 billion
1	1	50.5 weeks	0.97
1	2	1.9 years	3.9
1	4	3.9 years	15.5
1	8	7.75 years	62
1	16	15.5 years	250
1	32	31 years	1000
1	64	62 years	4000
1	128	124 years	16000
1	250	250 years	60 thousand
1	500	500 years	240 thousand
1	1000	970 years	970 thousand
1	2000	1940 years	3.9 million
1	4000	3900 years	15.5 million
1	8000	7700 years	62 million
1	16000	15500 years	248 million
1	32000	31 thousand years	1 billion
1	64000	62 thousand years	4 billion
1	128000	124 thousand years	16 billion
1	250000	1 quarter million years	60 billion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)	Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
1.5	1	34 weeks	0.65	2.5	1	20 weeks	0.4
1.5	2	15.5 months	2.6	2.5	2	40 weeks	1.5
1.5	4	2.6 years	10	2.5	4	18.6 months	6.2
1.5	8	5.2 years	41	2.5	8	3.1 years	25
1.5	16	10 years	165	2.5	16	6.2 years	100
1.5	32	21 years	660	2.5	32	12.4 years	400
1.5	64	41 years	2640	2.5	64	25 years	1600
1.5	128	83 years	10600	2.5	128	50 years	6400
1.5	250	161 years	40 thousand	2.5	250	97 years	25 thousand
1.5	500	323 years	160 thousand	2.5	500	194 years	100 thousand
1.5	1000	656 years	645 thousand	2.5	1000	390 years	400 thousand
1.5	2000	1300 years	2.6 million	2.5	2000	775 years	1.6 million
1.5	4000	2600 years	10 million	2.5	4000	1550 years	6.2 million
1.5	8000	5200 years	40 million	2.5	8000	3100 years	25 million
1.5	16000	10 thousand years	160 million	2.5	16000	6200 years	100 million
1.5	32000	20 thousand years	660 million	2.5	32000	12 thousand years	400 million
1.5	64000	40 thousand years	2.6 billion	2.5	64000	25 thousand years	1.6 billion
1.5	128000	80 thousand years	10 billion	2.5	128000	50 thousand years	6.3 billion
1.5	250000	160 thousand years	40 billion	2.5	250000	100 thousand years	24 billion
2	1	25 weeks	0.5	3	1	17 weeks	0.32
2	2	50 weeks	2	3	2	34 weeks	1.3
2	4	100 weeks	7.75	3	4	67 weeks	5.2
2	8	200 weeks	31	3	8	2.6 years	21
2	16	400 weeks	124	3	16	5.2 years	83
2	32	15.5 years	500	3	32	10 years	331
2	64	31 years	2000	3	64	21 years	1322
2	128	62 years	8000	3	128	41 years	5300
2	250	124 years	30 thousand	3	250	81 years	20 thousand
2	500	250 years	120 thousand	3	500	161 years	81 thousand
2	1000	500 years	500 thousand	3	1000	323 years	325 thousand
2	2000	970 years	2 million	3	2000	646 years	1.3 million
2	4000	1940 years	8 million	3	4000	1290 years	5.2 million
2	8000	3900 years	31 million	3	8000	2600 years	21 million
2	16000	7700 years	124 million	3	16000	5200 years	83 million
2	32000	15500 years	500 million	3	32000	10 thousand years	330 million
2	64000	31 thousand years	2 billion	3	64000	20 thousand years	1.3 billion
2	128000	62 thousand years	8 billion	3	128000	40 thousand years	5.3 billion
2	250000	124 thousand years	30 billion	3	250000	80 thousand years	20 billion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
4	1	88 days	0.24
4	2	25 weeks	1
4	4	50 weeks	3.9
4	8	2 years	15.5
4	16	4 years	62
4	32	8 years	250
4	64	15.5 years	1000
4	128	31 years	4000
4	250	61 years	15 thousand
4	500	121 years	60 thousand
4	1000	242 years	240 thousand
4	2000	484 years	1 million
4	4000	970 years	4 million
4	8000	1940 years	16 million
4	16000	4000 years	62 million
4	32000	8000 years	250 million
4	64000	16000 years	1 billion
4	128000	32 thousand years	4 billion
4	250000	60 thousand years	15 billion
5	1	10 weeks	0.2
5	2	20 weeks	0.8
5	4	40 weeks	3.1
5	8	1.5 years	12.4
5	16	3 years	50
5	32	6 years	198
5	64	12 years	793
5	128	25 years	3200
5	250	48 years	12 thousand
5	500	97 years	50 thousand
5	1000	194 years	193 thousand
5	2000	390 years	775 thousand
5	4000	775 years	3.1 million
5	8000	1550 years	12 million
5	16000	3100 years	50 million
5	32000	6200 years	200 million
5	64000	12400 years	800 million
5	128000	25000 years	3 billion
5	250000	50 thousand years	12 billion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
10	1	35 days	0.1
10	2	10 weeks	0.4
10	4	20 weeks	1.6
10	8	40 weeks	6.2
10	16	1.5 years	25
10	32	3 years	100
10	64	6 years	400
10	128	12 years	1600
10	250	25 years	6000
10	500	48 years	25 thousand
10	1000	97 years	100 thousand
10	2000	194 years	400 thousand
10	4000	390 years	1.6 million
10	8000	775 years	6.2 million
10	16000	1550 years	25 million
10	32000	3100 years	100 million
10	64000	6200 years	400 million
10	128000	12400 years	1.6 billion
10	250000	25000 years	6 billion
15	1	23.5 days	22 light-days
15	2	47 days	0.26
15	4	13.5 weeks	1
15	8	27 weeks	4.1
15	16	54 weeks	16.5
15	32	25 months	66
15	64	4 years	265
15	128	8 years	1060
15	250	16 years	4 thousand
15	500	32 years	16 thousand
15	1000	65 years	65 thousand
15	2000	129 years	260 thousand
15	4000	258 years	1 million
15	8000	516 years	4 million
15	16000	1033 years	16 million
15	32000	2100 years	66 million
15	64000	4100 years	264 million
15	128000	8250 years	1 billion
15	250000	16 thousand years	4 billion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
25	1	2 weeks	14.6 light-days
25	2	4 weeks	55 light-days
25	4	8 weeks	0.6
25	8	16 weeks	2.5
25	16	32 weeks	10
25	32	1.25 years	40
25	64	2.5 years	159
25	128	5 years	635
25	250	10 years	2400
25	500	19 years	10 thousand
25	1000	39 years	40 thousand
25	2000	77.5 years	155 thousand
25	4000	155 years	620 thousand
25	8000	310 years	2.5 million
25	16000	620 years	10 million
25	32000	1240 years	40 million
25	64000	2500 years	160 million
25	128000	5000 years	640 million
25	250000	10 thousand years	2.5 billion
50	1	1 week	7 light-days
50	2	2 weeks	28 light-days
50	4	4 weeks	113 light-days
50	8	8 weeks	1.2
50	16	16 weeks	5
50	32	32 weeks	20
50	64	1.25 years	79
50	128	2.4 years	317
50	250	5 years	1210
50	500	10 years	5000
50	1000	19 years	20 thousand
50	2000	39 years	78 thousand
50	4000	77 years	310 thousand
50	8000	155 years	1.25 million
50	16000	310 years	5 million
50	32000	620 years	20 million
50	64000	1240 years	80 million
50	128000	2400 years	320 million
50	250000	5000 years	1.2 billion

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
100	1	3.5 days	3.5 light-days
100	2	1 week	14 light-days
100	4	2 weeks	57 light-days
100	8	4 weeks	226 light-days
100	16	8 weeks	2.5
100	32	16 weeks	10
100	64	32 weeks	40
100	128	1.25 years	159
100	250	2.4 years	605
100	500	5 years	2400
100	1000	10 years	10 thousand
100	2000	19 years	40 thousand
100	4000	39 years	155 thousand
100	8000	77 years	620 thousand
100	16000	155 years	2.5 million
100	32000	310 years	10 million
100	64000	620 years	40 million
100	128000	1240 years	160 million
100	250000	2400 years	600 million
250	1	34 hrs	34 light-hours
250	2	68 hrs	5.66 light-days
250	4	5 days 16 hrs	22.6 light-days
250	8	11 days	0.25
250	16	23 days	1
250	32	6.5 weeks	4
250	64	13 weeks	16
250	128	6 months	63
250	250	1 year	242
250	500	2 years	1000
250	1000	4 years	4000
250	2000	8 years	15500
250	4000	16 years	62 thousand
250	8000	31 years	250 thousand
250	16000	62 years	1 million
250	32000	124 years	4 million
250	64000	248 years	16 million
250	128000	500 years	64 million
250	250000	1000 years	250 million

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
500	1	17 hrs	2.5 Pluto orbits
500	2	34 hrs	2.8 light-days
500	4	2 days 20 hrs	11.3 light-days
500	8	5 days 16 hrs	45 light-days
500	16	11 days 8 hrs	0.5
500	32	22 days 16 hrs	2
500	64	45 days	8
500	128	13 weeks	32
500	250	25 weeks	121
500	500	1 year	484
500	1000	2 years	1940
500	2000	4 years	7750
500	4000	8 years	31 thousand
500	8000	16 years	124 thousand
500	16000	31 years	500 thousand
500	32000	62 years	2 million
500	64000	124 years	8 million
500	128000	248 years	32 million
500	250000	484 years	121 million
1000	1	8.5 hrs	60.5 au
1000	2	17 hrs	1.4 light-days
1000	4	34 hrs	5.66 light-days
1000	8	2.8 days	22.6 light-days
1000	16	5 days 16 hrs	0.25
1000	32	11 days 8 hrs	1
1000	64	3.2 weeks	4
1000	128	6.5 weeks	16
1000	250	3 months	61
1000	500	6 months	242
1000	1000	1 year	970
1000	2000	2 years	3900
1000	4000	4 years	15 thousand
1000	8000	8 years	62 thousand
1000	16000	16 years	250 thousand
1000	32000	31 years	1 million
1000	64000	62 years	4 million
1000	128000	124 years	16 million
1000	250000	242 years	60 million

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
2000	1	4.25 hrs	30 au (orbit of Neptune)
2000	2	8.5 hrs	120 au
2000	4	17 hrs	2.8 light-days
2000	8	34 hrs	11.3 light-days
2000	16	2.8 days	45 light-days
2000	32	5 days 16 hrs	0.5
2000	64	11 days 8 hrs	2
2000	128	3.2 weeks	8
2000	250	6.5 weeks	30
2000	500	3 months	121
2000	1000	6 months	484
2000	2000	1 year	1937
2000	4000	2 years	7750
2000	8000	4 years	31 thousand
2000	16000	8 years	124 thousand
2000	32000	16 years	500 thousand
2000	64000	31 years	2 million
2000	128000	62 years	8 million
2000	250000	124 years	30 million
4000	1	127 min	15.1 AU (half neptune orbit)
4000	2	4.25 hrs	242 AU
4000	4	8.5 hrs	1.4 light-days
4000	8	17 hrs	5.6 light-days
4000	16	34 hrs	22.6 light-days
4000	32	2.8 days	0.25
4000	64	5.6 days	1
4000	128	11.3 days	4
4000	250	22 days	15
4000	500	44 days	61
4000	1000	88 days	242
4000	2000	25.25 weeks	970
4000	4000	50.5 weeks	4000
4000	8000	2 years	15500
4000	16000	4 years	62000
4000	32000	8 years	250 thousand
4000	64000	15.5 years	1 million
4000	128000	31 years	4 million
4000	250000	61 years	15 million

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
8000	1	1 hr	7.5 AU
8000	2	2 hrs	30 AU (orbit of Neptune)
8000	4	4.25 hrs	120 au
8000	8	8.5 hrs	2.8 light-days
8000	16	17 hrs	11.3 light-days
8000	32	34 hrs	45 light-days
8000	64	2 days 20 hrs	0.5
8000	128	5 days 16 hrs	2
8000	250	11 days	8
8000	500	22 days	30
8000	1000	44 days	121
8000	2000	3 months	484
8000	4000	6 months	1937
8000	8000	1 year	7750
8000	16000	2 years	31 thousand
8000	32000	4 years	124 thousand
8000	64000	8 years	500 thousand
8000	128000	15 years	2 million
8000	250000	30 years	8 million

Acceleration (gravities)	Peak Speed (x c)	Time to peak speed	journey (light years)
16000	1	32 min	3.8 AU (half-way to midway between Jupiter and Saturn)
16000	2	64 min	7.6 AU
16000	4	127 min	15 AU (Half-way to Neptune)
16000	8	4.25 hrs	30 AU
16000	16	8.5 hrs	120 au
16000	32	17 hrs	2.8 light-days
16000	64	34 hrs	11.3 light-days
16000	128	2.8 days	45 light-days
16000	250	5.5 days	0.5
16000	500	11 days	2
16000	1000	22 days	8
16000	2000	44 days	30
16000	4000	3 months	121
16000	8000	6 months	484
16000	16000	1 year	1937
16000	32000	2 years	7750
16000	64000	4 years	31 thousand
16000	128000	8 years	124 thousand
16000	250000	15 years	500 thousand