

20.00

Spur Gear Design

18.0009

Student Number	Given				Sig Digits	Material	Rename	Movement	Gear Mate	Pinion Gear								Extras		Gear Wheel							Extras	
	G1 Gear Ratio	P1 Diameter Pitch	N1 Pinion Gear Teeth	N1						Do1	Dp1	Dr1	Dpp1	Db	Ta41	Root Perpend	Xc	N2	Do2	Dp2	Dr2	Dpp2	Db	Ta42	Root Perpend			
1 0757	3	27	18	points					0.7407	0.6867	0.5926	0.1667		5.000		1.333							54	2.074	2.000	1.926	0.500	1.667
2 5816	1.5	40	26	points					0.7000	0.6500	0.6000	0.1625		3.462		0.813							39	1.025	0.975	0.925	0.244	2.308
3 2117	2	32	18	points					0.6250	0.5625	0.5000	0.1406		5.000		0.844							36	1.188	1.125	1.063	0.281	2.500
4 9298	3	28	17	points					0.6786	0.6071	0.5357	0.1518		5.294		1.214							51	1.893	1.821	1.750	0.455	1.765
5 2851	2.75	16	16	points					1.1250	1.0000	0.8750	0.2500		5.625		1.875							44	2.875	2.750	2.625	0.688	2.045
6 4561	2.25	20	20	points					1.1000	1.0000	0.9000	0.2500		4.500		1.625							45	2.350	2.250	2.150	0.563	2.000
7 3242	3	30	19	points					0.7000	0.6333	0.5667	0.1583		4.737		1.267							57	1.967	1.900	1.833	0.475	1.579
8 4614	1.75	30	16	points					0.6000	0.5333	0.4667	0.1333		5.625		0.733							28	1.000	0.933	0.867	0.233	3.214
9 5442	2.25	24	16	points					0.7500	0.6867	0.5833	0.1667		5.625		1.083							36	1.583	1.500	1.417	0.375	2.500
10 9848	2.75	18	20	points					1.2222	1.1111	1.0000	0.2778		4.500		2.083							55	3.167	3.056	2.944	0.764	1.636
11 4605	3.25	26	16	points					0.6923	0.6154	0.5385	0.1538		5.625		1.308							52	2.077	2.000	1.923	0.500	1.731
12 9255	2	25	16	points					0.7200	0.6400	0.5600	0.1600		5.625		0.960							32	1.360	1.280	1.200	0.320	2.813
13 5412	2.5	32	20	points					0.6875	0.6250	0.5625	0.1563		4.500		1.094							50	1.625	1.563	1.500	0.391	1.800
14 9908	3.5	22	14	points					0.7273	0.6364	0.5455	0.1591		6.429		1.432							49	2.318	2.227	2.136	0.557	1.937
15 9414	3	12	20	points					1.8333	1.6667	1.5000	0.4167		4.500		3.333							60	5.167	5.000	4.833	1.250	1.500
16 4174	3.5	18	16	points					1.0000	0.8889	0.7778	0.2222		5.625		2.000							56	3.222	3.111	3.000	0.778	1.607
17 2325	2	27	17	points					0.7037	0.6296	0.5556	0.1574		5.294		0.944							34	1.333	1.259	1.185	0.315	2.647
18 4491	2.5	20	14	points					0.8000	0.7000	0.6000	0.1750		6.429		1.225							35	1.850	1.750	1.650	0.438	2.571
19 2257	3	22	16	points					0.8182	0.7273	0.6364	0.1818		5.625		1.455							48	2.273	2.182	2.091	0.545	1.875
20 2169	2	31	21	points					0.7419	0.6774	0.6129	0.1694		4.286		1.016							42	1.419	1.355	1.290	0.339	2.143
21 8326	2.5	24	16	points					0.7500	0.6867	0.5833	0.1667		5.625		1.167							40	1.750	1.667	1.583	0.417	2.250
22 0	2.5	32	24	points					0.8125	0.7500	0.6875	0.1875		3.750		1.313							60	1.938	1.875	1.813	0.469	1.500