

Laser Levels Online

Gradient Conversion Chart

Gradient - Percentage Grade

Grade	%	Grade	%	Grade	%	Grade	%	Grade	%
1:10	= 10.000	1:50	= 2.000	1:90	= 1.112	1:250	= 0.400	1:750	= 0.134
1:11	= 9.090	1:51	= 1.960	1:91	= 1.098	1:255	= 0.392	1:775	= 0.130
1:12	= 8.334	1:52	= 1.924	1:92	= 1.086	1:260	= 0.384	1:800	= 0.126
1:13	= 7.692	1:53	= 1.886	1:93	= 1.076	1:265	= 0.378	1:825	= 0.122
1:14	= 7.142	1:54	= 1.852	1:94	= 1.064	1:270	= 0.370	1:850	= 0.118
1:15	= 6.668	1:55	= 1.818	1:95	= 1.052	1:275	= 0.364	1:875	= 0.114
1:16	= 6.250	1:56	= 1.786	1:96	= 1.042	1:280	= 0.358	1:900	= 0.112
1:17	= 5.882	1:57	= 1.754	1:97	= 1.030	1:285	= 0.350	1:925	= 0.108
1:18	= 5.556	1:58	= 1.724	1:98	= 1.020	1:290	= 0.344	1:950	= 0.106
1:19	= 5.264	1:59	= 1.694	1:99	= 1.010	1:295	= 0.338	1:975	= 0.102
1:20	= 5.000	1:60	= 1.666	1:100	= 1.000	1:300	= 0.334	1:1000	= 0.100
1:21	= 4.762	1:61	= 1.640	1:105	= 0.952	1:310	= 0.332		
1:22	= 4.546	1:62	= 1.612	1:110	= 0.910	1:320	= 0.312		
1:23	= 4.348	1:63	= 1.588	1:115	= 0.870	1:330	= 0.304		
1:24	= 4.166	1:64	= 1.562	1:120	= 0.834	1:340	= 0.294		
1:25	= 4.000	1:65	= 1.538	1:125	= 0.800	1:350	= 0.286		
1:26	= 3.846	1:66	= 1.516	1:130	= 0.770	1:360	= 0.278		
1:27	= 3.704	1:67	= 1.492	1:135	= 0.740	1:370	= 0.270		
1:28	= 3.572	1:68	= 1.470	1:140	= 0.714	1:380	= 0.264		
1:29	= 3.448	1:69	= 1.450	1:145	= 0.690	1:390	= 0.256		
1:30	= 3.334	1:70	= 1.428	1:150	= 0.666	1:400	= 0.250		
1:31	= 3.226	1:71	= 1.408	1:155	= 0.646	1:410	= 0.244		
1:32	= 3.126	1:72	= 1.388	1:160	= 0.626	1:420	= 0.238		
1:33	= 3.030	1:73	= 1.370	1:165	= 0.606	1:430	= 0.232		
1:34	= 2.942	1:74	= 1.352	1:170	= 0.588	1:440	= 0.228		
1:35	= 2.858	1:75	= 1.334	1:175	= 0.572	1:450	= 0.222		
1:36	= 2.778	1:76	= 1.316	1:180	= 0.556	1:460	= 0.218		
1:37	= 2.702	1:77	= 1.298	1:185	= 0.540	1:470	= 0.212		
1:38	= 2.632	1:78	= 1.282	1:190	= 0.526	1:480	= 0.208		
1:39	= 2.564	1:79	= 1.266	1:195	= 0.512	1:490	= 0.204		
1:40	= 2.500	1:80	= 1.250	1:200	= 0.500	1:500	= 0.200		
1:41	= 2.438	1:81	= 1.234	1:205	= 0.488	1:525	= 0.190		
1:42	= 2.380	1:82	= 1.220	1:210	= 0.476	1:550	= 0.182		
1:43	= 2.326	1:83	= 1.204	1:215	= 0.466	1:575	= 0.174		
1:44	= 2.272	1:84	= 1.190	1:220	= 0.454	1:600	= 0.166		
1:45	= 2.222	1:85	= 1.176	1:225	= 0.444	1:625	= 0.160		
1:46	= 2.174	1:86	= 1.162	1:230	= 0.434	1:650	= 0.154		
1:47	= 2.128	1:87	= 1.150	1:235	= 0.426	1:675	= 0.148		
1:48	= 2.084	1:88	= 1.136	1:240	= 0.416	1:700	= 0.142		
1:49	= 2.040	1:89	= 1.124	1:245	= 0.408	1:725	= 0.138		

Formula:

$$\frac{\text{Distance in height}}{\text{Distance}} \times 100 = \text{Percentage Grade}$$

Example: Find 1 in 19.5

$$= \frac{1}{19.5} \times 100 = 5.128\%$$