

**FOUR PLACE
LOGARITHMIC TABLES
CONTAINING THE
LOGARITHMS OF NUMBERS**

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Four Place Logarithmic Tables Containing the Logarithms of Numbers by Percey F. Smith

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PERCEY F. SMITH

**FOUR PLACE
LOGARITHMIC TABLES
CONTAINING THE
LOGARITHMS OF NUMBERS**

FOUR-PLACE
LOGARITHMIC TABLES

CONTAINING THE

LOGARITHMS OF NUMBERS

AND OF THE

TRIGONOMETRIC FUNCTIONS

*ARRANGED FOR USE IN THE ENTRANCE EXAMINATIONS
OF THE SHEFFIELD SCIENTIFIC SCHOOL
OF YALE UNIVERSITY*



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1902

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PREFACE

THESE tables are designed to furnish the student beginning the use of logarithms with an instrument for calculation perfect as far as possible within the limits of four-figure accuracy. The theory of logarithms as taught in the preparatory schools should include some attention to the degree of accuracy attainable in logarithmic computation, and this volume will serve very well to illustrate these principles. The student will appreciate the utility of logarithms just in so far as he is confident of attaining the maximum accuracy of which the system admits.

The admirable work of Dr. C. Bremiker, *Tafeln Vierstelliger Logarithmen*, has been taken as the basis of the present set, which comprises two tables only, viz.:

Logarithms of Numbers from 1 to 2000, pages 2-5;

Logarithms of the Trigonometric Functions, pages 6-29;
from 0° to 8° and 82° to 90° for every *one-hundredth*, and
from 5° to 85° for every *one-tenth* of a degree.

The division of the degree into decimal parts has much to recommend it theoretically, and is also regarded with favor by many expert computers. In fact, a movement towards the adoption of such a system of subdivision is not only gaining headway in France and Germany, but is making itself felt in this country.

My acknowledgments are due my colleagues, Drs. W. A. Granville and E. R. Hedrick, for valuable assistance in reading proofs.

PERCEY F. SMITH.

SHEFFIELD SCIENTIFIC SCHOOL,
NEW HAVEN, CONN.,
January, 1902.

N.	0	1	2	3	4	5	6	7	8	9	P. P.		
0	—	0000	3010	4771	6021	6990	7782	8451	9031	9542	22	21	
1	0000	0414	0792	1139	1461	1761	2041	2304	2553	2786	1 2 3 4 5 6 7 8 9	2.2 4.4 6.6 8.8 11.0 13.2 15.4 17.6 19.8	2.1 4.3 6.3 8.4 10.5 12.6 14.7 16.8 18.9
2	3010	3222	3424	3617	3802	3979	4150	4314	4472	4624			
3	4771	4914	5051	5185	5315	5441	5563	5682	5798	5911			
4	6021	6128	6232	6335	6435	6532	6628	6721	6812	6902			
5	6990	7076	7160	7243	7324	7404	7482	7559	7634	7709			
6	7782	7853	7924	7993	8062	8129	8195	8261	8325	8388			
7	8451	8513	8573	8633	8692	8751	8808	8865	8921	8976	20	19	
8	9031	9085	9138	9191	9243	9294	9345	9395	9445	9494	1 2 3 4 5 6 7 8 9	2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 18.0	1.9 3.8 5.7 7.6 9.5 11.4 13.3 15.2 17.1
9	9542	9590	9638	9685	9731	9777	9823	9868	9912	9956			
10	0000	0043	0086	0128	0170	0212	0253	0294	0334	0374			
11	0414	0453	0492	0531	0569	0607	0645	0682	0719	0755			
12	0792	0828	0864	0899	0934	0969	1004	1038	1072	1106			
13	1139	1173	1206	1239	1271	1303	1335	1367	1399	1430			
14	1461	1492	1523	1553	1584	1614	1644	1673	1703	1732			
15	1761	1790	1818	1847	1875	1903	1931	1959	1987	2014	18	17	
16	2041	2068	2095	2122	2149	2175	2201	2227	2253	2279	1 2 3 4 5 6 7 8 9	1.8 3.6 5.4 7.2 9.0 10.8 12.6 14.4 16.2	1.7 3.4 5.1 6.8 8.5 10.2 11.9 13.6 15.3
17	2304	2330	2355	2380	2405	2430	2455	2480	2504	2529			
18	2553	2577	2601	2625	2649	2672	2695	2718	2742	2765			
19	2788	2810	2833	2856	2878	2900	2923	2945	2967	2989			
20	3010	3032	3054	3075	3096	3118	3139	3160	3181	3201			
21	3222	3243	3263	3284	3304	3324	3345	3365	3385	3404			
22	3424	3444	3464	3483	3502	3522	3541	3560	3579	3598			
23	3617	3636	3655	3674	3692	3711	3729	3747	3766	3784	16	15	
24	3802	3820	3838	3856	3874	3892	3909	3927	3945	3962	1 2 3 4 5 6 7 8 9	1.6 3.2 4.8 6.4 8.0 9.6 11.2 12.8 14.4	1.5 3.0 4.5 6.0 7.5 9.0 10.5 12.0 13.5
25	3979	3997	4014	4031	4048	4065	4082	4099	4116	4133			
26	4150	4166	4183	4200	4216	4232	4248	4265	4281	4298			
27	4314	4330	4346	4362	4378	4393	4409	4425	4440	4456			
28	4472	4487	4502	4518	4533	4548	4564	4579	4594	4609			
29	4624	4639	4654	4669	4683	4698	4713	4728	4742	4757			
30	4771	4786	4800	4814	4829	4843	4857	4871	4886	4900	14	13	
31	4914	4928	4942	4955	4969	4983	4997	5011	5024	5038	1 2 3 4 5 6 7 8 9	1.4 2.8 4.2 5.6 7.0 8.4 9.8 11.2 12.6	1.3 2.6 3.9 5.2 6.5 7.7 9.1 10.4 11.7
32	5051	5065	5079	5092	5105	5119	5132	5145	5159	5172			
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34	5315	5328	5340	5353	5366	5378	5391	5403	5416	5428			
35	5441	5453	5465	5478	5490	5502	5514	5527	5539	5551			
36	5563	5575	5587	5599	5611	5623	5635	5647	5659	5670			
37	5682	5694	5705	5717	5729	5740	5752	5763	5775	5786	12	11	
38	5798	5809	5821	5832	5843	5855	5866	5877	5888	5900	1 2 3 4 5 6 7 8 9	1.2 2.4 3.6 4.8 6.0 7.2 8.4 9.6 10.8	1.1 2.2 3.3 4.4 5.5 6.6 7.7 8.8 9.9
39	5911	5922	5933	5944	5955	5966	5977	5988	5999	6010			
40	6021	6031	6042	6053	6064	6075	6085	6096	6107	6117			
41	6128	6138	6149	6160	6170	6180	6191	6201	6212	6222			
42	6232	6243	6253	6263	6274	6284	6294	6304	6314	6325			
43	6335	6345	6355	6365	6375	6385	6395	6405	6415	6425			
44	6435	6444	6454	6464	6474	6484	6493	6503	6513	6522			
45	6532	6542	6551	6561	6571	6580	6590	6599	6609	6618	9	8	
46	6628	6637	6646	6656	6665	6675	6684	6693	6702	6712	1 2 3 4 5 6 7 8 9	0.9 1.8 2.7 3.6 4.5 5.4 6.3 7.2 8.1	0.8 1.6 2.4 3.2 4.0 4.8 5.6 6.4 7.2
47	6721	6730	6739	6749	6758	6767	6776	6785	6794	6803			
48	6812	6821	6830	6839	6848	6857	6866	6875	6884	6893			
49	6902	6911	6920	6928	6937	6946	6955	6964	6972	6981			
50	6990	6998	7007	7016	7024	7033	7042	7050	7059	7067			
N.	0	1	2	3	4	5	6	7	8	9			

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50	6990	6998	7007	7016	7024	7033	7042	7050	7059	7067	
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52	7160	7168	7177	7185	7193	7202	7210	7218	7226	7235	1
53	7243	7251	7259	7267	7275	7284	7292	7300	7308	7316	2
54	7324	7332	7340	7348	7356	7364	7372	7380	7388	7396	3
55	7404	7412	7419	7427	7435	7443	7451	7459	7466	7474	4
56	7482	7490	7497	7505	7513	7520	7528	7536	7543	7551	5
57	7559	7566	7574	7582	7589	7597	7604	7612	7619	7627	6
58	7634	7642	7649	7657	7664	7672	7679	7686	7694	7701	7
59	7709	7716	7723	7731	7738	7745	7752	7760	7767	7774	8
60	7782	7789	7796	7803	7810	7818	7825	7832	7839	7846	1
61	7853	7860	7868	7875	7882	7889	7896	7903	7910	7917	2
62	7924	7931	7938	7945	7952	7959	7966	7973	7980	7987	3
63	7993	8000	8007	8014	8021	8028	8035	8041	8048	8055	4
64	8062	8069	8075	8082	8089	8096	8102	8109	8116	8122	5
65	8129	8136	8142	8149	8156	8162	8169	8176	8182	8189	6
66	8195	8202	8209	8215	8222	8228	8235	8241	8248	8254	7
67	8261	8267	8274	8280	8287	8293	8299	8306	8312	8319	8
68	8325	8331	8338	8344	8351	8357	8363	8370	8376	8382	1
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70	8451	8457	8463	8470	8476	8482	8488	8494	8500	8506	3
71	8513	8519	8525	8531	8537	8543	8549	8555	8561	8567	4
72	8573	8579	8585	8591	8597	8603	8609	8615	8621	8627	5
73	8633	8639	8645	8651	8657	8663	8669	8675	8681	8686	6
74	8692	8698	8704	8710	8716	8722	8727	8733	8739	8745	7
75	8751	8756	8762	8768	8774	8779	8785	8791	8797	8802	8
76	8808	8814	8820	8825	8831	8837	8842	8848	8854	8859	9
77	8865	8871	8876	8882	8887	8893	8899	8904	8910	8915	1
78	8921	8927	8932	8938	8943	8949	8954	8960	8965	8971	2
79	8976	8982	8987	8993	8998	9004	9009	9015	9020	9025	3
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81	9085	9090	9096	9101	9106	9112	9117	9122	9128	9133	5
82	9138	9143	9149	9154	9159	9165	9170	9175	9180	9186	6
83	9191	9196	9201	9206	9212	9217	9222	9227	9232	9238	7
84	9243	9248	9253	9258	9263	9269	9274	9279	9284	9289	8
85	9294	9299	9304	9309	9315	9320	9325	9330	9335	9340	9
86	9345	9350	9355	9360	9365	9370	9375	9380	9385	9390	1
87	9395	9400	9405	9410	9415	9420	9425	9430	9435	9440	2
88	9445	9450	9455	9460	9465	9469	9474	9479	9484	9489	3
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90	9542	9547	9552	9557	9562	9566	9571	9576	9581	9586	5
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92	9638	9643	9647	9652	9657	9661	9666	9671	9675	9680	7
93	9685	9689	9694	9699	9703	9708	9713	9717	9722	9727	8
94	9731	9736	9741	9745	9750	9754	9759	9763	9768	9773	9
95	9777	9782	9786	9791	9795	9800	9805	9809	9814	9818	1
96	9823	9827	9832	9836	9841	9845	9850	9854	9859	9863	2
97	9868	9872	9877	9881	9886	9890	9894	9899	9903	9908	3
98	9912	9917	9921	9926	9930	9934	9939	9943	9948	9952	4
99	9956	9961	9965	9969	9974	9978	9983	9987	9991	9996	5
100	0000	0004	0009	0013	0017	0022	0026	0030	0035	0039	
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100	0000	0004	0009	0013	0017	0022	0026	0030	0035	0039	
101	0043	0048	0052	0056	0060	0065	0069	0073	0077	0082	
102	0086	0090	0095	0099	0103	0107	0111	0116	0120	0124	
103	0128	0133	0137	0141	0145	0149	0154	0158	0162	0166	
104	0170	0175	0179	0183	0187	0191	0195	0199	0204	0208	
105	0212	0216	0220	0224	0228	0233	0237	0241	0245	0249	
106	0253	0257	0261	0265	0269	0273	0278	0282	0286	0290	
107	0294	0298	0302	0306	0310	0314	0318	0322	0326	0330	5
108	0334	0338	0342	0346	0350	0354	0358	0362	0366	0370	0.5
109	0374	0378	0382	0386	0390	0394	0398	0402	0406	0410	1.0
110	0414	0418	0422	0426	0430	0434	0438	0441	0445	0449	1.5
111	0453	0457	0461	0465	0469	0473	0477	0481	0484	0488	2.0
112	0492	0496	0500	0504	0508	0512	0515	0519	0523	0527	2.5
113	0531	0535	0538	0542	0546	0550	0554	0558	0561	0565	3.0
114	0569	0573	0577	0580	0584	0588	0592	0596	0599	0603	3.5
115	0607	0611	0615	0618	0622	0626	0630	0633	0637	0641	4.0
116	0645	0648	0652	0656	0660	0663	0667	0671	0674	0678	4.5
117	0682	0686	0689	0693	0697	0700	0704	0708	0711	0715	4
118	0719	0722	0726	0730	0734	0737	0741	0745	0748	0752	0.4
119	0755	0759	0763	0766	0770	0774	0777	0781	0785	0788	0.6
120	0792	0795	0799	0803	0806	0810	0813	0817	0821	0824	1.2
121	0828	0831	0835	0839	0842	0846	0849	0853	0856	0860	1.6
122	0864	0867	0871	0874	0878	0881	0885	0888	0892	0896	2.0
123	0899	0903	0906	0910	0913	0917	0920	0924	0927	0931	2.4
124	0934	0938	0941	0945	0948	0952	0955	0959	0962	0966	2.8
125	0969	0973	0976	0980	0983	0986	0990	0993	0997	1000	3.2
126	1004	1007	1011	1014	1017	1021	1024	1028	1031	1035	3.6
127	1038	1041	1045	1048	1052	1055	1059	1062	1065	1069	3
128	1072	1075	1079	1082	1086	1089	1093	1096	1099	1103	0.3
129	1106	1109	1113	1116	1119	1123	1126	1129	1133	1136	0.9
130	1139	1143	1146	1149	1153	1156	1159	1163	1166	1169	0.9
131	1173	1176	1179	1183	1186	1189	1193	1196	1199	1202	1.2
132	1206	1209	1212	1216	1219	1222	1225	1229	1232	1235	1.5
133	1239	1242	1245	1248	1252	1255	1258	1261	1265	1268	1.9
134	1271	1274	1278	1281	1284	1287	1290	1294	1297	1300	2.1
135	1303	1307	1310	1313	1316	1319	1323	1326	1329	1332	2.4
136	1335	1339	1342	1345	1348	1351	1355	1358	1361	1364	2.7
137	1367	1370	1374	1377	1380	1383	1386	1389	1392	1396	
138	1399	1402	1405	1408	1411	1414	1418	1421	1424	1427	
139	1430	1433	1436	1440	1443	1446	1449	1452	1455	1458	
140	1461	1464	1467	1471	1474	1477	1480	1483	1486	1489	2
141	1492	1495	1499	1501	1504	1508	1511	1514	1517	1520	0.2
142	1523	1526	1529	1532	1535	1538	1541	1544	1547	1550	0.4
143	1553	1556	1559	1562	1565	1569	1572	1575	1578	1581	0.6
144	1584	1587	1590	1593	1596	1599	1602	1605	1608	1611	0.8
145	1614	1617	1620	1623	1626	1629	1632	1635	1638	1641	1.0
146	1644	1647	1649	1652	1655	1658	1661	1664	1667	1670	1.2
147	1673	1676	1679	1682	1685	1688	1691	1694	1697	1700	1.4
148	1703	1706	1708	1711	1714	1717	1720	1723	1726	1729	1.6
149	1732	1735	1738	1741	1744	1746	1749	1752	1755	1758	1.8
150	1761	1764	1767	1770	1772	1775	1778	1781	1784	1787	
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N.	0	1	2	3	4	5	6	7	8	9	P. P.
150	1761	1784	1787	1770	1772	1775	1779	1781	1784	1787	
151	1790	1793	1796	1798	1801	1804	1807	1810	1813	1816	
152	1818	1821	1824	1827	1830	1833	1836	1838	1841	1844	
153	1847	1850	1853	1855	1858	1861	1864	1867	1870	1872	
154	1875	1878	1881	1884	1886	1889	1892	1895	1898	1901	
155	1903	1906	1909	1912	1915	1917	1920	1923	1926	1928	
156	1931	1934	1937	1940	1942	1945	1949	1951	1953	1956	
157	1959	1962	1965	1967	1970	1973	1976	1978	1981	1984	
158	1987	1989	1992	1995	1998	2000	2003	2006	2009	2011	
159	2014	2017	2019	2022	2025	2028	2030	2033	2036	2038	
160	2041	2044	2047	2049	2052	2055	2057	2060	2063	2066	
161	2068	2071	2074	2076	2079	2082	2084	2087	2090	2092	
162	2095	2098	2101	2103	2106	2109	2111	2114	2117	2119	
163	2122	2125	2127	2130	2133	2135	2138	2140	2143	2146	
164	2148	2151	2154	2156	2159	2162	2164	2167	2170	2172	
165	2175	2177	2180	2183	2185	2188	2191	2193	2196	2198	
166	2201	2204	2206	2209	2212	2214	2217	2219	2222	2225	
167	2227	2230	2232	2235	2238	2240	2243	2245	2248	2251	
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173	2380	2383	2385	2388	2390	2393	2395	2398	2400	2403	
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175	2430	2433	2435	2438	2440	2443	2445	2448	2450	2453	
176	2455	2458	2460	2463	2465	2467	2470	2472	2475	2477	
177	2480	2482	2485	2487	2490	2492	2494	2497	2499	2502	
178	2504	2507	2509	2512	2514	2518	2519	2521	2524	2526	
179	2529	2531	2533	2536	2538	2541	2543	2545	2548	2550	
180	2553	2555	2558	2560	2562	2565	2567	2570	2572	2574	
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183	2625	2627	2629	2632	2634	2636	2639	2641	2643	2646	
184	2648	2651	2653	2655	2658	2660	2662	2665	2667	2669	
185	2672	2674	2676	2679	2681	2683	2686	2688	2690	2693	
186	2695	2697	2700	2702	2704	2707	2709	2711	2714	2716	
187	2718	2721	2723	2725	2728	2730	2732	2735	2737	2739	
188	2742	2744	2746	2749	2751	2753	2756	2758	2760	2762	
189	2765	2767	2769	2772	2774	2776	2778	2781	2783	2785	
190	2788	2790	2792	2794	2797	2799	2801	2804	2806	2808	
191	2810	2813	2815	2817	2819	2822	2824	2826	2828	2831	
192	2833	2835	2838	2840	2842	2844	2847	2849	2851	2853	
193	2855	2858	2860	2862	2865	2867	2869	2871	2874	2876	
194	2878	2880	2883	2885	2887	2889	2891	2894	2896	2898	
195	2900	2903	2905	2907	2909	2911	2914	2916	2918	2920	
196	2923	2925	2927	2929	2931	2934	2936	2938	2940	2942	
197	2945	2947	2949	2951	2953	2956	2958	2960	2962	2964	
198	2967	2969	2971	2973	2975	2978	2980	2982	2984	2986	
199	2989	2991	2993	2995	2997	2999	3002	3004	3006	3008	
200	3010	3012	3015	3017	3019	3021	3023	3025	3028	3030	
N.	0	1	2	3	4	5	6	7	8	9	

3
 1 0.3
 2 0.8
 3 0.9
 4 1.2
 5 1.5
 6 1.8
 7 2.1
 8 2.4
 9 2.7

3
 1 0.3
 2 0.4
 3 0.6
 4 0.8
 5 1.0
 6 1.2
 7 1.4
 8 1.6
 9 1.8