

## Table of Critical *t* Values

**df = N-1 for one-sample *t* test, confidence intervals, and for the *t* test for dependent (paired) samples.**

**df = N<sub>1</sub> + N<sub>2</sub> – 2 for two-sample *t* test for independent samples.**

<b>P</b>	<b>.10</b>	<b>.05</b>	<b>.02</b>	<b>.01</b>
<b>One Tail</b>	<b>0.050</b>	<b>0.025</b>	<b>0.010</b>	<b>0.005</b>
<b>Two Tail</b>	<b>0.100</b>	<b>0.050</b>	<b>0.020</b>	<b>0.010</b>
<b>df = 1</b>	6.314	12.706	31.821	63.657
<b>2</b>	2.920	4.303	6.965	9.925
<b>3</b>	2.353	3.182	4.541	5.841
<b>4</b>	2.132	2.776	3.747	4.604
<b>5</b>	2.015	2.571	3.365	4.032
<b>6</b>	1.943	2.447	3.143	3.707
<b>7</b>	1.895	2.365	2.998	3.499
<b>8</b>	1.860	2.306	2.896	3.355
<b>9</b>	1.833	2.262	2.821	3.250
<b>10</b>	1.812	2.228	2.764	3.169
<b>11</b>	1.796	2.201	2.718	3.106
<b>12</b>	1.782	2.179	2.681	3.055
<b>13</b>	1.771	2.160	2.650	3.012
<b>14</b>	1.761	2.145	2.624	2.977
<b>15</b>	1.753	2.131	2.602	2.947
<b>16</b>	1.746	2.120	2.583	2.921
<b>17</b>	1.740	2.110	2.567	2.898
<b>18</b>	1.734	2.101	2.552	2.878
<b>19</b>	1.729	2.093	2.539	2.861
<b>20</b>	1.725	2.086	2.528	2.845
<b>21</b>	1.721	2.080	2.518	2.831
<b>22</b>	1.717	2.074	2.508	2.819
<b>23</b>	1.714	2.069	2.500	2.807
<b>24</b>	1.711	2.064	2.492	2.797
<b>25</b>	1.708	2.060	2.485	2.787
<b>26</b>	1.706	2.056	2.479	2.779
<b>27</b>	1.703	2.052	2.473	2.771
<b>28</b>	1.701	2.048	2.467	2.763
<b>29</b>	1.699	2.045	2.462	2.756
<b>30</b>	1.697	2.042	2.457	2.750
<b>40</b>	1.684	2.021	2.423	2.704
<b>50</b>	1.676	2.009	2.403	2.678

<b>60</b>	1.671	2.000	2.390	2.660
<b>70</b>	1.667	1.994	2.381	2.648
<b>80</b>	1.664	1.990	2.374	2.639
<b>90</b>	1.662	1.987	2.368	2.632
<b>100</b>	1.660	1.984	2.364	2.626
$\infty$	1.645	1.960	2.326	2.576