

### ***t*-dháileadh Student**

*luachanna criticiúla tástála aonfhoirne*

Nuair a thugtar  $A$ , faightear ón tábla an luach ar  $k$  mar a bhfuil  $P(T > k) = A$ ,

áit a leanann  $T$ ,  $t$ -dháileadh a bhfuil  $v$  céim saoirse aige.



### **Student's $t$ -distribution**

*one-tailed critical values*

Given  $A$ , the table gives the value of  $k$  for which  $P(T > k) = A$ ,

where  $T$  follows a  $t$ -distribution with  $v$  degrees of freedom.

| $\begin{matrix} A \\ v \end{matrix}$ | 0.1   | 0.05  | 0.025 | 0.01  | 0.005 | 0.001 | 0.0005 | 0.0001 | 0.00005 |
|--------------------------------------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 1                                    | 3.078 | 6.314 | 12.71 | 31.82 | 63.66 | 318.3 | 636.6  | 3183   | 6366    |
| 2                                    | 1.886 | 2.920 | 4.303 | 6.965 | 9.925 | 22.33 | 31.60  | 70.70  | 99.99   |
| 3                                    | 1.638 | 2.353 | 3.182 | 4.541 | 5.841 | 10.21 | 12.92  | 22.20  | 28.00   |
| 4                                    | 1.533 | 2.132 | 2.776 | 3.747 | 4.604 | 7.173 | 8.610  | 13.03  | 15.54   |
| 5                                    | 1.476 | 2.015 | 2.571 | 3.365 | 4.032 | 5.893 | 6.869  | 9.678  | 11.18   |
| 6                                    | 1.440 | 1.943 | 2.447 | 3.143 | 3.707 | 5.208 | 5.959  | 8.025  | 9.082   |
| 7                                    | 1.415 | 1.895 | 2.365 | 2.998 | 3.499 | 4.785 | 5.408  | 7.063  | 7.885   |
| 8                                    | 1.397 | 1.860 | 2.306 | 2.896 | 3.355 | 4.501 | 5.041  | 6.442  | 7.120   |
| 9                                    | 1.383 | 1.833 | 2.262 | 2.821 | 3.250 | 4.297 | 4.781  | 6.010  | 6.594   |
| 10                                   | 1.372 | 1.812 | 2.228 | 2.764 | 3.169 | 4.144 | 4.587  | 5.694  | 6.211   |
| 11                                   | 1.363 | 1.796 | 2.201 | 2.718 | 3.106 | 4.025 | 4.437  | 5.453  | 5.921   |
| 12                                   | 1.356 | 1.782 | 2.179 | 2.681 | 3.055 | 3.930 | 4.318  | 5.263  | 5.694   |
| 13                                   | 1.350 | 1.771 | 2.160 | 2.650 | 3.012 | 3.852 | 4.221  | 5.111  | 5.513   |
| 14                                   | 1.345 | 1.761 | 2.145 | 2.624 | 2.977 | 3.787 | 4.140  | 4.985  | 5.363   |

t-dháileadh Student (ar lean)

Student's *t*-distribution (continued)

| $\alpha$<br>$v$ | 0.1   | 0.05  | 0.025 | 0.01  | 0.005 | 0.001 | 0.0005 | 0.0001 | 0.00005 |
|-----------------|-------|-------|-------|-------|-------|-------|--------|--------|---------|
| 15              | 1.341 | 1.753 | 2.131 | 2.602 | 2.947 | 3.733 | 4.073  | 4.880  | 5.239   |
| 16              | 1.337 | 1.746 | 2.120 | 2.583 | 2.921 | 3.686 | 4.015  | 4.790  | 5.134   |
| 17              | 1.333 | 1.740 | 2.110 | 2.567 | 2.898 | 3.646 | 3.965  | 4.715  | 5.043   |
| 18              | 1.330 | 1.734 | 2.101 | 2.552 | 2.878 | 3.610 | 3.922  | 4.648  | 4.966   |
| 19              | 1.328 | 1.729 | 2.093 | 2.539 | 2.861 | 3.579 | 3.883  | 4.590  | 4.899   |
| 20              | 1.325 | 1.725 | 2.086 | 2.528 | 2.845 | 3.552 | 3.850  | 4.539  | 4.838   |
| 21              | 1.323 | 1.721 | 2.080 | 2.518 | 2.831 | 3.527 | 3.819  | 4.492  | 4.785   |
| 22              | 1.321 | 1.717 | 2.074 | 2.508 | 2.819 | 3.505 | 3.792  | 4.452  | 4.736   |
| 23              | 1.319 | 1.714 | 2.069 | 2.500 | 2.807 | 3.485 | 3.768  | 4.416  | 4.694   |
| 24              | 1.318 | 1.711 | 2.064 | 2.492 | 2.797 | 3.467 | 3.745  | 4.382  | 4.654   |
| 25              | 1.316 | 1.708 | 2.060 | 2.485 | 2.787 | 3.450 | 3.725  | 4.352  | 4.619   |
| 26              | 1.315 | 1.706 | 2.056 | 2.479 | 2.779 | 3.435 | 3.707  | 4.324  | 4.587   |
| 27              | 1.314 | 1.703 | 2.052 | 2.473 | 2.771 | 3.421 | 3.689  | 4.299  | 4.556   |
| 28              | 1.313 | 1.701 | 2.048 | 2.467 | 2.763 | 3.408 | 3.674  | 4.276  | 4.531   |
| 29              | 1.311 | 1.699 | 2.045 | 2.462 | 2.756 | 3.396 | 3.660  | 4.254  | 4.505   |
| 30              | 1.310 | 1.697 | 2.042 | 2.457 | 2.750 | 3.385 | 3.646  | 4.234  | 4.482   |
| 40              | 1.303 | 1.684 | 2.021 | 2.423 | 2.704 | 3.307 | 3.551  | 4.094  | 4.321   |
| 50              | 1.299 | 1.676 | 2.009 | 2.403 | 2.678 | 3.261 | 3.496  | 4.014  | 4.228   |
| 60              | 1.296 | 1.671 | 2.000 | 2.390 | 2.660 | 3.232 | 3.460  | 3.962  | 4.169   |
| 80              | 1.292 | 1.664 | 1.990 | 2.374 | 2.639 | 3.195 | 3.416  | 3.899  | 4.095   |
| 100             | 1.290 | 1.660 | 1.984 | 2.364 | 2.626 | 3.174 | 3.390  | 3.861  | 4.054   |
| $\infty$        | 1.282 | 1.645 | 1.960 | 2.326 | 2.576 | 3.090 | 3.290  | 3.719  | 3.891   |