| | 20 | 59.60 | 16.80 | 11.24 | 9.23 | 8.21 | 7.17 | 6.87 | 6.64 | 6.47 | 6.33 | 6.21 | 6.11 | 6.03 | 5.96 | 5.90 | 5.84 | 5.75 | 5.71 | 5.59 | 5.48 | 5.36 | 5.24 | 5.13 | 5.01 continued |
|--|--|---------|-------|---------------|------|------|-------|------------|--------------|--------|-----------|-------------|-------------|-------|--------|--------------|------|---------------|----------------|-------|-------|------|------------|-------------------|-------------------|
| | 19 | 58.80 | 16.60 | 11.11 | 9.13 | 8.12 | 7.09 | 08.9 | 6.58 | 6.40 | 6.26 | 6.15 | 6.05 | 2.97 | 5.90 | 5.84 | 5.79 | 5.70 | 5 66 | 5.54 | 5.43 | 5.31 | 5.20 | 5.09 | 4.97 co |
| | 8 | 58.00 | 16.40 | 10.98 | 9.03 | 8.03 | 7.02 | 6.73 | 6.51 | 6.34 | 6.20 | 6.09 | 6.00 | 5.92 | 5.85 | 5.79 | 5.74 | 7.03 65 | 5.61 | 5.50 | 5.38 | 5.27 | 5.16 | 5.05 | 4.93 |
| | 17 | 57.20 | 16.10 | 10.84 | 8.91 | 7.93 | 6.94 | 6.65 | 6.44 | 6.27 | 6.14 | 6.03 | 5.93 | 5.85 | 5.79 | 5.72 | 5.68 | 7.03 | 5.55 | 5.44 | 5.33 | 5.22 | 5.11 | 2.00 | 4.89 |
| | 16 | 56.30 | 15.90 | 10.69 | 8.79 | 7.83 | 6.85 | 6.57 | 98.9 | 6.20 | 90.9 | 5.95 | 5.86 | 5.79 | 5.72 | 5.66 | 5.61 | 5.57 | 5 49 | 5.38 | 5.27 | 5.16 | 5.06 | 4.95 | 4.85 |
| | 75 | 55.40 | 15.70 | 10.52 | 8.66 | 7.72 | 6.76 | 6.48 | 6.28 | 6.11 | 5.99 | 5.88 | 5.79 | 5.72 | 5.65 | 5.59 | 5.55 | 5.46 | 5 43 | 5.32 | 5.21 | 5.11 | 2.00 | 4.90 | 4.80 |
| | 4 | 54.30 | 15.40 | 10.35 | 8.52 | 7.60 | 99.9 | 6.39 | 6.19 | 6.03 | 2.90 | 5.80 | 5.71 | 5.64 | 5.58 | 5.52 | 5.47 | 7.39 | 5.36 | 5.25 | 5.15 | 5.05 | 4.94 | 4.84 | 4.74 |
| | 5 | 53.20 | 15.10 | 10.15 | 8.37 | 7.47 | 6.55 | 6.29 | 60.9 | 5.93 | 5.81 | 5.71 | 5.63 | 5.55 | 5.49 | 5.44 | 5.39 | 7.33 | 5.28 | 5.18 | 5.08 | 4.98 | 4.88 | 4.78 | 4.68 |
| 0.05) | reedom 12 | 52.00 | 14.70 | 9.95 | 8.21 | 7.32 | 6.43 | 6.18 | 5.98 | 5.83 | 5.71 | 5.62 | 5.53 | 5.46 | 5.40 | 5.35 | 5.31 | 7.27 | 5.20 | 5.10 | 2.00 | 4.91 | 4.81 | 4.72 | 4.62 |
| Upper 5% points ($lpha=0.05$ | Numerator degrees or rreedom 10 11 12 | 50.60 | 14.40 | 9.72 | 8.03 | 7.17 | 6.30 | 6.05 | 2.87 | 5.72 | 5.61 | 5.51 | 5.43 | 5.36 | 5.31 | 5.26 | 5.21 | 5.17 | 5 11 | 5.01 | 4.92 | 4.82 | 4.73 | 4.64 | 4.55 |
| per 5% po | lerator de 10 | 49.10 | 14.00 | 9.46 | 7.83 | 6.99 | 6.16 | 5.95 | 5.74 | 2.60 | 5.49 | 5.40 | 5.32 | 5.25 | 5.20 | 5.15 | 5.11 | 5.07 | 5.01 | 4.92 | 4.83 | 4.74 | 4.65 | 4.56 | 4.47 |
| Upp | E 6 | 47.40 | 13.50 | 9.18 | 7.60 | 6.80 | 6.00 | 5.77 | 2.60 | 5.46 | 5.32 | 5.27 | 5.19 | 5.13 | 5.08 | 5.03 | 4.99 | 4.30 | 4 90 | 4.81 | 4.72 | 4.63 | 4.55 | 4.48 | 4.39 |
| | œ | 45.40 | 13.00 | 8.85 | 7.35 | 6.58 | 5.82 | 2.60 | 5.43 | 5.30 | 5.20 | 5.12 | 5.05 | 4.99 | 4.94 | 4.90 | 4.86 | 4.02 | 4 77 | 4.68 | 4.60 | 4.52 | 4.44 | 4.36 | 4.29 |
| | _ | 43.10 | 12.40 | 8.48 | 7.05 | 6.33 | 5.61 | 5.40 | 5.24 | 5.12 | 5.03 | 4.95 | 4.88 | 4.83 | 4.78 | 4.74 | 4.71 | 4.07 | 4 62 | 4.54 | 4.46 | 4.39 | 4.31 | 4.24 | 4.17 |
| , red. | 9 | 40.40 | 11.70 | 8.04 | 6.71 | 6.03 | 5.36 | 5.17 | 5.02 | 4.91 | 4.82 | 4.75 | 4.69 | 4.64 | 4.60 | 4.56 | 4.52 | 4.43 | 4 45 | 4.37 | 4.30 | 4.23 | 4.16 | 4.10 | 4.03 |
| ı rights resen | ល | 37.10 | 10.90 | 7.50 | 6.29 | 5.67 | 5.06 | 4.89 | 4.76 | 4.65 | 4.57 | 4.51 | 4.45 | 4.41 | 4.37 | 4.33 | 4.30 | 4.20 4.25 | 4 23 | 4.17 | 4.10 | 4.04 | 3.98 | 3.92 | 3.86 |
| Australia. Al | 4 | 32.80 | 9.80 | 6.82 | 5.76 | 5.22 | 4.68 | 4.53 | 4.42 | 4.33 | 4.26 | 4.20 | 4.15 | 4.11 | 4.08 | 4.05 | 4.02 | 3 08 | 3.96 | 3.90 | 3.84 | 3.79 | 3.74 | 3.69 | 3.63 |
| Copyright © 2015. P.Ed Australia. All rights reserved. | ო | 27.00 | 8.30 | 5.91 | 5.04 | 4.60 | 4.16 | 4.04 | 3.95 | 3.88 | 3.82 | 3.77 | 3.73 | 3.70 | 3.67 | 3.65 | 3.63 | 3.50 | 3 6 | 3.53 | 3.49 | 3.44 | 3.40 | 3.36 | 3.31 |
| Copyright | 2 | 18.00 | 60.9 | 4.50 | 3.93 | 3.64 | 3.34 | 3.26 | 3.20 | 3.15 | 3.11 | 3.08 | 3.06 | 3.03 | 3.01 | 3.00 | 2.98 | 76.7 2 06 | 2 95 | 2.92 | 2.89 | 2.86 | 2.83 | 2.80 | 2.77 |
| Copyright © 2015. P.Ed Australia. Copyright © 2015. P.Ed Australia. | SS Verominator Perominator Perominator Perominator | ustrali | a, 20 | က • 15. Pr | oQue | ന ധ | ook C | ∞ entra | တ I, http | 0://eb | T ooko | ₽ centra | က al.pro | odne: | st.com | 9 ! n/lib | / Ç | ာ ငု in/de | 2 C tail.ac | tion? | Ocoli | O=52 | 0 9 | .∞ ₁₂₀ | 8 |
| | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | 20 | 298.00 | 37.90 | 19.80 | 11.93 | 10.54 | 9.65 | 9.03 | 8.57 | 8.22 | 7.95 | 7.73 | 7.55 | 7.39 | 7.26 | 7.15 | 7.05 | 96.9 | 68.9 | 6.82 | 6.61 | 6.41 | 6.21 | 6.02 | 5.83 | 5.65 |
|--|--|---|---------------------------------|------------------------------|------------|---------|--------|--------------|--------|-------|------|-------|--------|--------|------|------|--------|------|-------|-------|-------|------|-------|--------|-------|------|------|-------|-----------------|------|
| | | | | | 19 | | 37.50 | 14.20 | 11.81 | 10.43 | 9.55 | 8.94 | 8.49 | 8.15 | 7.88 | 99'. | 7.48 | 7.33 | 7.20 | 7.09 | 7.00 | 6.91 | 6.84 | 9.76 | 5.56 | 98.9 | 6.17 | 5.98 | 5.79 | 5.61 |
| | | | | | 8 | 290.00 | 37.00 | 14.10 | 11.68 | 10.32 | 9.46 | 8.85 | 8.41 | 8.07 | 7.81 | 7.59 | 7.42 | 7.27 | 7.14 | 7.03 | 6.94 | 6.85 | 8.78 | 6.71 | 6.51 | 6.31 | 6.12 | 5.93 | 5.75 | 5.57 |
| | | | | | 17 | 286.00 | 36.50 | 13.90 | 11.55 | 10.21 | 9.35 | 8.76 | 8.32 | 7.99 | 7.73 | 7.52 | 7.34 | 7.20 | 7.07 | 6.97 | 6.87 | 6.79 | 6.72 | 6.65 | 6.45 | 6.26 | 20.9 | 5.89 | 5.71 | 5.54 |
| | | | | | 16 | 282.00 | 36.00 | 13.70 | 11.40 | 10.08 | 9.24 | 99.8 | 8.23 | 7.91 | 7.65 | 7.44 | 7.27 | 7.12 | 7.00 | 06.9 | 08.9 | 6.72 | 6.65 | 6.59 | 6.39 | 6.20 | 6.02 | 5.84 | 5.66 | 5.49 |
| | | | | | 15 | 277.00 | 35.40 | 13.50 | 11.24 | 9.92 | 9.12 | 8.55 | 8.13 | 7.81 | 7.56 | 7.36 | 7.19 | 7.05 | 6.93 | 6.82 | 6.73 | 6.65 | 6.58 | 6.52 | 6.33 | 6.14 | 5.96 | 5.79 | 5.61 | 5.45 |
| | | | | | 14 | 272.00 | 34.80 | 13.30 | 11.08 | 9.81 | 9.00 | 8.44 | 8.03 | 7.71 | 7.46 | 7.26 | 7.10 | 96.9 | 6.84 | 6.74 | 99.9 | 6.58 | 6.51 | 6.45 | 6.26 | 80.9 | 2.90 | 5.73 | 5.56 | 5.40 |
| | | nued) | | | 13 | 266.00 | 34.10 | 13.10 | 10.89 | 9.62 | 8.86 | 8.31 | 7.91 | 7.60 | 7.36 | 7.17 | 7.01 | 6.87 | 92.9 | 99.9 | 6.57 | 6.50 | 6.43 | 6.37 | 6.19 | 6.01 | 5.84 | 2.67 | 5.51 | 5.35 |
| | | | 0.01) | mopaa. | 12 | 260.00 | 33.40 | 12.80 | 10.70 | 9.49 | 8.71 | 8.18 | 7.78 | 7.48 | 7.25 | 2.06 | 06.9 | 6.77 | 99.9 | 92.9 | 6.48 | 6.41 | 6.34 | 6.29 | 6.11 | 5.93 | 2.77 | 2.60 | 5.44 | 5.29 |
| | | | Upper 1% points ($lpha=0.01$) | Numerator degrees of freedom | Ξ | 253.00 | 32.60 | 12.60 | 10.48 | 9.30 | 8.55 | 8.03 | 7.65 | 7.36 | 7.13 | 6.94 | 6.79 | 99.9 | 6.55 | 6.46 | 6.38 | 6.31 | 6.25 | 6.19 | 6.02 | 5.85 | 5.69 | 5.53 | 5.38 | 5.23 |
| | | | oer 1% po | erator deç | 9 | 246.00 | 31.70 | 12.30 | 10.24 | 9.10 | 8.37 | 78.7 | 7.49 | 7.21 | 6.99 | 6.81 | 29.9 | 6.54 | 6.44 | 6.35 | 6.27 | 6.20 | 6.14 | 60.9 | 5.95 | 5.76 | 2.60 | 5.45 | 5.30 | 5.16 |
| | | | Upr | Num | 6 | 237.00 | 30.70 | 11.90 | 9.97 | 8.87 | 8.17 | 7.68 | 7.32 | 7.05 | 6.84 | 6.67 | 6.53 | 6.41 | 6.31 | 6.22 | 6.15 | 90.9 | 6.02 | 5.97 | 5.81 | 5.65 | 5.50 | 5.36 | 5.21 | 2.08 |
| | | | | | œ | 227.00 | 29.50 | 11.50 | 9.67 | 8.61 | 7.94 | 7.47 | 7.13 | 6.87 | 6.67 | 6.51 | 6.37 | 6.26 | 6.16 | 90'9 | 6.01 | 5.94 | 5.89 | 5.84 | 5.69 | 5.54 | 5.39 | 5.25 | 5.12 | 4.99 |
| | | | | | 7 | 216.00 | 28.20 | 11.10 | 9.32 | 8.32 | 7.68 | 7.24 | 6.91 | 29.9 | 6.48 | 6.32 | 6.19 | 90.9 | 5.99 | 5.95 | 5.85 | 5.79 | 5.73 | 5.69 | 5.54 | 5.40 | 5.27 | 5.13 | 5.01 | 4.88 |
| Copyright © 2015. P.Ed Australia. All rights reserved. | | | | | 9 | 202.00 | 26.60 | 10.60 | 8.91 | 7.97 | 7.37 | 96.9 | 99.9 | 6.43 | 6.26 | 6.10 | 5.98 | 5.88 | 5.80 | 5.72 | 5.66 | 2.60 | 5.52 | 5.51 | 5.37 | 5.24 | 5.11 | 4.99 | 4.87 | 4.76 |
| | | | | | | | | Ŋ | 186.00 | 24.70 | 9.96 | 8.42 | 7.56 | 7.01 | 6.63 | 6.35 | 6.14 | 5.97 | 5.84 | 5.73 | 5.63 | 5.56 | 5.49 | 5.43 | 5.38 | 5.33 | 5.29 | 5.17 | 5.05 | 4.93 |
| Australia. All | | ge Q (con | | | 4 | 164.00 | 22.30 | 9.17 | 7.80 | 7.03 | 6.54 | 6.20 | 5.96 | 5.77 | 5.62 | 5.50 | 5.40 | 5.32 | 5.25 | 5.19 | 5.14 | 5.09 | 5.05 | 5.02 | 4.91 | 4.80 | 4.70 | 4.60 | 4.50 | 4.40 |
| 2015. P.Ed / | | intised ran | | | က | 135.00 | 19.00 | 8.12 | 6.97 | 6.33 | 5.92 | 5.63 | 5.43 | 5.27 | 5.14 | 5.04 | 4.96 | 4.89 | 4.83 | 4.78 | 4.74 | 4.70 | 4.67 | 4.64 | 4.54 | 4.45 | 4.37 | 4.28 | 4.20 | 4.12 |
| Copyright © | | f the Stude | | | 2 | 90.00 | 14.00 | 6.51 6.51 | 5.70 | 5.24 | 4.95 | 4.74 | 4.60 | 4.48 | 4.39 | 4.32 | 4.26 | 4.21 | 4.17 | 4.13 | 4.10 | 4.07 | 4.05 | 4.02 | 3.96 | 3.89 | 3.82 | 3.76 | 3.70 | 3.64 |
| | | Table E.10 Critical values of the Studentised range Q ($continued$) | | | regrees or | | 2 0 | | | 9 | | | | 10 | | | | 14 | | | | | . 19 | | | | 40 | | 120 | 8 |
| | | n, Mark, et al. <i>Basic Busines from deakin on 2019-07-14 06:</i> | | | P.Ed A | ustrali | a, 201 | 5. Pro | Ques | t Ebo | ok C | Centr | al, ht | tp://e | book | cent | tral.p | roqu | est.c | om/li | ib/de | akin | /deta | ail.ac | tion? | docl | D=52 | 21849 |) 3. | |

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