STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS LIGHT MUSCLE FIBER RATIOS muscle area / Body wgt

Calculated F-ratio= 4.6996 with 2 , 4 degrees of freedom.

The variances are equal since 4.6996 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	8.6000	6.7000
2====>	6.3000	6.7000
3====>	7.6000	5.4000
4====>		6.2000
5====>		6.3000

N's	===>	3	5
Total	===>	22.5000	31.3000
Mean	===>	7.5000	6.2600
Sum of squares	===>	2.6600	1.1320
Variances	===>	1.3300	0.2830
Std deviations	===>	1.1533	0.5320

Calculated value of T= 2.1358 with 6 degrees of freedom.

The exact P-value is: 0.0766 or 92.34%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS LIGHT INTERMEDIATE MUSCLE FIBER RATIOS

Calculated F-ratio= 3.1407 with 1 , 4 degrees of freedom.

The variances are equal since 3.1407 is less than 7.7100

RAW DATA*

	GROUP 1	GROUP 2
1====>	7.1000	6.2000
2====>	4.7000	5.4000
3====>		3.7000
4====>		4.4000
5====>		4.7000

N's	===>	2	5
Total	===>	11.8000	24.4000
Mean	===>	5.9000	4.8800
Sum of squares	===>	2.8800	3.6680
Variances	===>	2.8800	0.9170
Std deviations	===>	1.6971	0.9576

Calculated value of T= 1.0653 with 5 degrees of freedom.

The exact P-value is: 0.3354 or 66.46%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS DARK INTERMEDIATE MUSCLE FIBER RATIOS

Calculated F-ratio= 3.0710 with 2 , 4 degrees of freedom.

The variances are equal since 3.0710 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	8.2000	4.7000
2====>	10.9000	7.9000
3====>	13.5000	7.6000
4====>		7.2000
5====>		5.0000

N's	===>	3	5
Total	===>	32.6000	32.4000
Mean	===>	10.8667	6.4800
Sum of squares	===>	14.0467	9.1480
Variances	===>	7.0233	2.2870
Std deviations	===>	2.6502	1.5123

Calculated value of T= 3.0550 with 6 degrees of freedom.

The exact P-value is: 0.0224 or 97.76%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples DO differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS DARK MUSCLE FIBER RATIOS

Calculated F-ratio= 15.2973 with 2 , 4 degrees of freedom.

The variances are UNequal since 15.2973 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	10.1000	7.9000
2====>	6.9000	7.4000
3====>	9.4000	7.2000
4====>		6.8000
5====>		7.7000

N's	===>	3	5
Total	===>	26.4000	37.0000
Mean	===>	8.8000	7.4000
Sum of squares	===>	5.6600	0.7400
Variances	===>	2.8300	0.1850
Std deviations	===>	1.6823	0.4301

Calculated value of T= 1.4140 with 2 degrees of freedom.

The exact P-value is: 0.2930 or 70.70%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS LIGHT MUSCLE FIBER AREAS

Calculated F-ratio= 4.3386 with 2 , 4 degrees of freedom.

The variances are equal since 4.3386 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	2725.1020	2211.8800
2====>	2361.2890	2080.4560
3====>	2555.1670	2065.4270
4====>		1973.3700
5====>		2037.9540

N's	===>	3	5
Total	===>	7641.5580	10369.0870
Mean	===>	2547.1860	2073.8174
Sum of squares	===>	66275.4940	30551.6150
Variances	===>	33137.7470	7637.9037
Std deviations	===>	182.0378	87.3951

Calculated value of T= 5.1024 with 6 degrees of freedom.

The exact P-value is: 0.0022 or 99.78%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples DO differ significantly at the 1% level, ONE-TAILED.

The samples DO differ significantly at the 5% level, TWO-TAILED.

The samples DO differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS LIGHT INTERMEDIATE MUSCLE FIBER AREAS

Calculated F-ratio= 1.8439 with 1 , 4 degrees of freedom.

The variances are equal since 1.8439 is less than 7.7100

RAW DATA*

	GROUP 1	GROUP 2
1====>	2283.4800	2052.1600
2====>	1775.0800	1677.5690
3====>		1420.8400
4====>		1408.2670
5====>		1543.9900

N's	===>	2	5
Total	===>	4058.5600	8102.8260
Mean	===>	2029.2800	1620.5652
Sum of squares	===>	129235.2800	280347.9471
Variances	===>	129235.2800	70086.9868
Std deviations	===>	359.4931	264.7395

Calculated value of T= 1.7068 with 5 degrees of freedom.

The exact P-value is: 0.1486 or 85.14%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS DARK INTERMEDIATE MUSCLE FIBER AREAS

Calculated F-ratio= 2.8968 with 2 , 4 degrees of freedom.

The variances are equal since 2.8968 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	2619.2400	1472.1440
2====>	4062.9760	2434.8710
3====>	4531.8130	2890.6600
4====>		2272.5600
5====>		1631.9700

N's	===>	3	5
Total	===>	11214.0290	10702.2050
Mean	===>	3738.0097	2140.4410
Sum of squares	===>	1987372.4169	1372136.6411
Variances	===>	993686.2084	343034.1603
Std deviations	===>	996.8381	585.6912

Calculated value of T= 2.9235 with 6 degrees of freedom.

The exact P-value is: 0.0265 or 97.35%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples DO differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS DARK MUSCLE FIBER AREAS

Calculated F-ratio= 2.3431 with 2 , 4 degrees of freedom.

The variances are equal since 2.3431 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	3234.0970	2611.5870
2====>	2572.0760	2300.3470
3====>	3164.9850	2762.0380
4====>		2169.9410
5====>		2514.0910

N's	===>	3	5
Total	===>	8971.1580	12358.0040
Mean	===>	2990.3860	2471.6008
Sum of squares	===>	264863.1184	226081.8194
Variances	===>	132431.5592	56520.4548
Std deviations	===>	363.9115	237.7403

Calculated value of T= 2.4834 with 6 degrees of freedom.

The exact P-value is: 0.0476 or 95.24%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples DO differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS PERCENT LIGHT FIBERS

Calculated F-ratio= 18.7813 with 4 , 2 degrees of freedom.

The variances are equal since 18.7813 is less than 19.2500

RAW DATA*

	GROUP 1	GROUP 2
1====>	13.5000	15.3000
2====>	12.5000	11.4000
3====>	12.6000	15.9000
4====>		18.0000
5====>		15.3000

N's	===>	3	5
Total	===>	38.6000	75.9000
Mean	===>	12.8667	15.1800
Sum of squares	===>	0.6067	22.7880
Variances	===>	0.3033	5.6970
Std deviations	===>	0.5508	2.3868

Calculated value of T= 1.6042 with 6 degrees of freedom.

The exact P-value is: 0.1598 or 84.02%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS PERCENT LIGHT INTERMEDIATE FIBERS

Calculated F-ratio= 17.6014 with 4 , 2 degrees of freedom.

The variances are equal since 17.6014 is less than 19.2500

RAW DATA*

	GROUP 1	GROUP 2
1====>	0.8000	1.7000
2====>	0.9000	6.9000
3====>	0.0000	3.5000
4====>		2.0000
5====>		3.2000

N's	===>	3	5
Total	===>	1.7000	17.3000
Mean	===>	0.5667	3.4600
Sum of squares	===>	0.4867	17.1320
Variances	===>	0.2433	4.2830
Std deviations	===>	0.4933	2.0695

Calculated value of T= 2.3120 with 6 degrees of freedom.

The exact P-value is: 0.0601 or 93.99%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS PERCENT DARK INTERMEDIATE FIBERS

Calculated F-ratio= 4.8357 with 2 , 4 degrees of freedom.

The variances are equal since 4.8357 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	10.5000	4.2000
2====>	4.5000	6.9000
3====>	8.4000	5.3000
4====>		5.3000
5====>		3.2000

N's	===>	3	5
Total	===>	23.4000	24.9000
Mean	===>	7.8000	4.9800
Sum of squares	===>	18.5400	7.6680
Variances	===>	9.2700	1.9170
Std deviations	===>	3.0447	1.3846

Calculated value of T= 1.8476 with 6 degrees of freedom.

The exact P-value is: 0.1142 or 88.58%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFA VS RFA PLANTARIS PERCENT DARK FIBERS

Calculated F-ratio= 3.0099 with 2 , 4 degrees of freedom.

The variances are equal since 3.0099 is less than 6.9400

RAW DATA*

	GROUP 1	GROUP 2
1====>	75.2000	78.8000
2====>	82.1000	74.8000
3====>	79.0000	75.2000
4====>		74.7000
5====>		78.2000

N's	===>	3	5
Total	===>	236.3000	381.7000
Mean	===>	78.7667	76.3400
Sum of squares	===>	23.8867	15.8720
Variances	===>	11.9433	3.9680
Std deviations	===>	3.4559	1.9920

Calculated value of T= 1.2908 with 6 degrees of freedom.

The exact P-value is: 0.2443 or 75.57%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS LIGHT MUSCLE FIBER RATIOS

Calculated F-ratio= 7.0790 with 2 , 4 degrees of freedom.

The variances are equal since 7.0790 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	5.5000	5.4000
2====>	5.0000	5.0000
3====>	5.9000	5.6000
4====>	9.1000	4.3000
5====>	6.7000	4.3000

N's	===>	5	5
Total	===>	32.2000	24.6000
Mean	===>	6.4400	4.9200
Sum of squares	===>	10.3920	1.4680
Variances	===>	2.5980	0.3670
Std deviations	===>	1.6118	0.6058

Calculated value of T= 1.9739 with 6 degrees of freedom.

The exact P-value is: 0.0958 or 90.42%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS LIGHT INTERMEDIATE MUSCLE FIBER RATIOS

Calculated F-ratio= 4.1255 with 4 , 4 degrees of freedom.

The variances are equal since 4.1255 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	3.8000	3.6000
2====>	4.5000	4.2000
3====>	6.3000	4.1000
4====>	5.1000	3.0000
5====>	3.9000	4.1000

N's	===>	5	5
Total	===>	23.6000	19.0000
Mean	===>	4.7200	3.8000
Sum of squares	===>	4.2080	1.0200
Variances	===>	1.0520	0.2550
Std deviations	===>	1.0257	0.5050

Calculated value of T= 1.7994 with 8 degrees of freedom.

The exact P-value is: 0.1096 or 89.04%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS DARK INTERMEDIATE MUSCLE FIBER RATIOS

Calculated F-ratio= 1.8766 with 4 , 4 degrees of freedom.

The variances are equal since 1.8766 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	11.8000	9.7000
2====>	11.9000	4.0000
3====>	10.7000	7.7000
4====>	18.3000	11.0000
5====>	8.5000	8.9000

N's	===>	5	5
Total	===>	61.2000	41.3000
Mean	===>	12.2400	8.2600
Sum of squares	===>	53.3920	28.4520
Variances	===>	13.3480	7.1130
Std deviations	===>	3.6535	2.6670

Calculated value of T= 1.9675 with 8 degrees of freedom.

The exact P-value is: 0.0847 or 91.53%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS DARK MUSCLE FIBER RATIOS

Calculated F-ratio= 52.3333 with 4 , 4 degrees of freedom.

The variances are equal since 52.3333 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	7.6000	7.3000
2====>	6.8000	6.6000
3====>	6.9000	7.0000
4====>	11.5000	6.9000
5====>	7.2000	6.7000
N's ===>	5	5
Total ===>	40.0000	34.5000
Mean ===>	8.0000	6.9000
Sum of squares ===>	15.7000	0.3000
Variances ===>	3.9250	0.0750
Std deviations ===>	1.9812	0.2739

Calculated value of T= 1.2298 with 4 degrees of freedom.

The exact P-value is: 0.2861 or 71.39%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS LIGHT MUSCLE FIBER AREAS

Calculated F-ratio= 5.6570 with 4 , 4 degrees of freedom.

The variances are equal since 5.6570 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	1874.3270	1729.8500
2====>	1630.3350	1629.7870
3====>	1926.0680	1911.2800
4====>	2816.3300	1681.2470
5====>	2445.6740	1352.6230

N's	===>	5	5
Total	===>	10692.7340	8304.7870
Mean	===>	2138.5468	1660.9574
Sum of squares	===>	926955.7600	163860.9583
Variances	===>	231738.9400	40965.2396
Std deviations	===>	481.3927	202.3957

Calculated value of T= 2.0450 with 8 degrees of freedom.

The exact P-value is: 0.0751 or 92.49%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS LIGHT INTERMEDIATE MUSCLE FIBER AREAS

Calculated F-ratio= 5.6074 with 4 , 4 degrees of freedom.

The variances are equal since 5.6074 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	1287.8930	1152.0510
2====>	1441.3400	1388.3940
3====>	2055.3440	1426.2800
4====>	1593.4290	1163.0600
5====>	1418.0240	1293.4840

N's	===>	5	5
Total	===>	7796.0300	6423.2690
Mean	===>	1559.2060	1284.6538
Sum of squares	===>	354759.6238	63266.5368
Variances	===>	88629.9060	15816.6342
Std deviations	===>	297.8085	125.7642

Calculated value of T= 1.8991 with 8 degrees of freedom.

The exact P-value is: 0.0941 or 90.59%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS DARK INTERMEDIATE MUSCLE FIBER AREA

Calculated F-ratio= 1.1449 with 4 , 4 degrees of freedom.

The variances are equal since 1.1449 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	4016.2680	3114.7800
2====>	3842.3600	1302.5100
3====>	3494.3670	2660.9920
4====>	5690.6670	4247.1370
5====>	3112.1040	2780.9220
N's ===>	5	5
Total ===>	20145.7660	14106.3410
Mean ===>	4029.1532	2821.2682
Sum of squares ===>	3889531.0745	4453193.7578
Variances ===>	972382.7686	1113298.4394
Std deviations ===>	986.0947	1055.1296

Calculated value of T= 1.8702 with 8 degrees of freedom.

The exact P-value is: 0.0984 or 90.16%

The samples DO differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.

STUDENT'S T-TEST

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

DFPT RFR VS RFR PLANTARIS DARK MUSCLE FIBER AREAS

Calculated F-ratio= 6.0088 with 4 , 4 degrees of freedom.

The variances are equal since 6.0088 is less than 6.3900

RAW DATA*

	GROUP 1	GROUP 2
1====>	2581.3020	2344.3290
2====>	2206.9330	2174.6220
3====>	2259.6910	2396.1580
4====>	3591.0450	2671.6620
5====>	2620.7300	2083.1240
N's ===>	5	5
Total ===>	13259.7010	11669.8950
Mean ===>	2651.9402	2333.9790
Sum of squares ===>	1239772.5002	206326.0435
Variances ===>	309943.1251	51581.5109
Std deviations ===>	556.7254	227.1156

Calculated value of T= 1.1825 with 8 degrees of freedom.

The exact P-value is: 0.2710 or 72.90%

The samples do NOT differ significantly at the 5% level, ONE-TAILED.

The samples do NOT differ significantly at the 1% level, ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED.

The samples do NOT differ significantly at the 1% level, TWO-TAILED.