

*** STUDENT'S T - TEST ***

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

AEM 1-5 DFPT R+0 EDL % DARK FIBER TYPES VS AEM 1-5 FLIGHT EDL

Calculated F-ratio = 4.1858 with 4 , 4 degrees of freedom.

The variances are equal since 4.1858 is less than 6.3900

*** R A W D A T A ***

		GROUP 1	GROUP 2
		-----	-----
1 ==>	50.2	59.0000	57.0000 49.0
2 ==>	48.4	56.0000	43.0000 41.0
3 ==>	46.7	53.0000	61.0000 51.4
4 ==>	47.3	54.0000	52.0000 46.1
5 ==>	45.0	50.0000	50.0000 45.0

N's	==>	5	5
Total	==>	272.0000	263.0000
Means	==>	54.4000	52.6000
Sum of squares	==>	45.2000	189.2000
Variances	==>	11.3000	47.3000
Std deviations	==>	3.3615	6.8775

3.31% ↑

Calculated value of T = 0.5258 with 8 degrees of freedom.

The exact P-value is: 0.6133 or 38.67%

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

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

*** STUDENT'S T - TEST ***

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

AEM 1-5 DEPT R+O EDL MODERATE FIBER TYPE VS AEM 1-5 FLIGHT EDL

Calculated F-ratio = 5.2033 with 4 , 4 degrees of freedom.

The variances are equal since 5.2033 is less than 6.3900

*** R A W D A T A ***

		GROUP 1	GROUP 2
1	====>	38.6	36.0000 36.9
2	====>	39.8	41.0000 46.1
3	====>	42.1	45.0000 53.8
4	====>	41.6	44.0000 40.4
5	====>	43.9	48.0000 41.6
N's	====>	5	5
Total	====>	217.0000	205.0000
Means	====>	43.4000	41.0000
Sum of squares	====>	49.2000	256.0000
Variances	====>	12.3000	64.0000
Std deviations	====>	3.5071	8.0000

5.53% ↑

Calculated value of T = 0.6144 with 8 degrees of freedom.

The exact P-value is: 0.5560 or 44.40%

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.

AEM 1-5 DFPT R+0 EDL % LIGHT FIBER TYPES VS AEM 1-5 FLIGHT EDL

Calculated F-ratio = 6.5000 with 4 , 4 degrees of freedom.

The variances are UNEQUAL since 6.5000 is greater than 6.3900

*** R A W D A T A ***

		GROUP 1	GROUP 2
		-----	-----
1 ==>	8.1	2.0000	7.0000 15.3
2 ==>	10.0	3.0000	5.0000 12.9
3 ==>	8.1	2.0000	8.0000 16.4
4 ==>	8.1	2.0000	6.0000 14.2
5 ==>	8.1	2.0000	6.0000 14.2
N's ==>		5	5
Total ==>		11.0000	32.0000
Means ==>		2.2000	6.4000
Sum of squares ==>		0.8000	5.2000
Variances ==>		0.2000	1.3000
Std deviations ==>		0.4472	1.1402

65.63% v

Calculated value of T = 7.6681 with 6 degrees of freedom.

The exact P-value is: 0.0003 or 99.97%

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.

Fiber type

*** STUDENT'S T - TEST ***

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

RAHF 1-10 DFPT R+0 EDL % DARK FIBER TYPES VS RAHF 1-10 FLIGHT EDL

Calculated F-ratio = 1.2522 with 9, 9 degrees of freedom.

The variances are equal since 1.2522 is less than 3.1800

*** R A W D A T A ***

		DFPT GROUP 1	FLIGHT GROUP 2
1	====>	49.0 57.0000	54.0000 47.3
2	====>	44.4 49.0000	37.0000 37.5
3	====>	46.1 52.0000	42.0000 40.4
4	====>	47.9 55.0000	47.0000 43.3
5	====>	43.9 48.0000	39.0000 38.6
6	====>	40.4 42.0000	41.0000 39.3
7	====>	39.8 41.0000	45.0000 42.1
8	====>	45.6 51.0000	46.0000 42.7
9	====>	41.0 43.0000	41.0000 39.8
10	====>	42.1 45.0000	47.0000 43.3

N's	====>	10	10
Total	====>	483.0000	439.0000
Means	====>	48.3000	43.9000
Sum of squares	====>	274.1000	218.9000
Variances	====>	30.4556	24.3222
Std deviations	====>	5.5187	4.9318

9.12⁰¹ T

Calculated value of T = 1.8800 with 18 degrees of freedom.

The exact P-value is: 0.0764 or 92.16%

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.

RAHF 1-10 DFPT R+0 EDL % MODERATE FIBER TYPES VS RAHF 1-10 FLIGHT

Calculated F-ratio = 1.1022 with 9 , 9 degrees of freedom.

The variances are equal since 1.1022 is less than 3.1800

*** R A W D A T A ***

	DFPT	GROUP 1	FLIGHT	GROUP 2
1 ==>>>	39.8	41.0000	39.0000	38.6
2 ==>>>	47.9	48.0000	58.0000	47.6
3 ==>>>	42.7	46.0000	53.0000	46.7
4 ==>>>	41.0	43.0000	47.0000	43.3
5 ==>>>	46.1	52.0000	58.0000	49.6
6 ==>>>	49.6	58.0000	58.0000	49.6
7 ==>>>	50.2	59.0000	53.0000	46.7
8 ==>>>	43.9	48.0000	49.0000	44.4
9 ==>>>	49.0	57.0000	55.0000	47.7
10 ==>>>	47.9	55.0000	48.0000	47.9

N's	==>	10	10
Total	==>	507.0000	518.0000
Means	==>	50.7000	51.8000
Sum of squares	==>	372.1000	337.6000
Variances	==>	41.3444	37.5111
Std deviations	==>	6.4300	6.1246

2.17%

Calculated value of T = 0.3917 with 18 degrees of freedom.

The exact P-value is: 0.6999 or 30.01%

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.

RAHF 1-10 DFPT R+0 EDL % LIGHT FIBER TYPES VS RAHF 1-10 FLIGHT ED

*** STUDENT'S T - TEST ***

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

RAHF 1-10 DFPT R+0 EDL % LIGHT FIBER TYPES VS RAHF 1-10 FLIGHT ED

Calculated F-ratio = 2.5083 with 9 , 9 degrees of freedom.

The variances are equal since 2.5083 is less than 3.1800

*** R A W D A T A ***

		GROUP 1	GROUP 2
1 ==>	3.1	2.0000	7.0000 15.3
2 ==>	10.0	3.0000	5.0000 12.9
3 ==>	8.1	2.0000	5.0000 12.9
4 ==>	3.1	2.0000	6.0000 14.2
5 ==>	0	0.0000	3.0000 10.0
6 ==>	0	0.0000	1.0000 5.7
7 ==>	0	0.0000	2.0000 8.1
8 ==>	5.7	1.0000	5.0000 12.9
9 ==>	0	0.0000	4.0000 11.5
10 ==>	0	0.0000	5.0000 12.9

N's	==>	10	10
Total	==>	10.0000	43.0000
Means	==>	1.0000	4.3000
Sum of squares	==>	12.0000	30.1000
Variances	==>	1.3333	3.3444
Std deviations	==>	1.1547	1.8288

Calculated value of T = 4.8250 with 18 degrees of freedom.

The exact P-value is: 0.0001 or 99.99%

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.