

Survey Summary Statistics

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Summary Statistics of Raw Scores

```
library(psych)
data<- read.csv("cfcs_complete.csv")
N<- 12
describe(data[2:(N+1)], skew = FALSE)
```

##	vars	n	mean	sd	median	trimmed	mad	min	max	range	se
## q1	1	50	4.00	0.88	4	4.12	0.00	2	5	3	0.12
## q2	2	50	3.78	1.00	4	3.85	1.48	2	5	3	0.14
## q3	3	50	3.60	1.09	4	3.62	1.48	2	5	3	0.15
## q4	4	50	3.68	1.15	4	3.77	1.48	1	5	4	0.16
## q5	5	50	2.58	0.99	2	2.58	1.48	1	5	4	0.14
## q6	6	50	3.86	0.93	4	3.95	0.00	2	5	3	0.13
## q7	7	50	4.30	0.93	5	4.47	0.00	2	5	3	0.13
## q8	8	50	3.80	1.05	4	3.90	1.48	1	5	4	0.15
## q9	9	50	3.92	1.16	4	4.08	1.48	1	5	4	0.16
## q10	10	50	3.72	1.31	4	3.88	1.48	1	5	4	0.19
## q11	11	50	4.04	1.07	4	4.17	1.48	2	5	3	0.15
## q12	12	50	3.06	1.13	3	3.12	1.48	1	5	4	0.16

Summary Statistics of Dichotomous Scores

```
describe(data[grepl("_bin", names(data), value=TRUE)], skew = FALSE)
```

##	vars	n	mean	sd	median	trimmed	mad	min	max	range	se
## q1_bin	1	50	0.86	0.35	1	0.95	0	0	1	1	0.05
## q2_bin	2	50	0.70	0.46	1	0.75	0	0	1	1	0.07
## q3_bin	3	50	0.66	0.48	1	0.70	0	0	1	1	0.07
## q4_bin	4	50	0.70	0.46	1	0.75	0	0	1	1	0.07
## q5_bin	5	50	0.22	0.42	0	0.15	0	0	1	1	0.06
## q6_bin	6	50	0.78	0.42	1	0.85	0	0	1	1	0.06
## q7_bin	7	50	0.84	0.37	1	0.92	0	0	1	1	0.05
## q8_bin	8	50	0.68	0.47	1	0.72	0	0	1	1	0.07
## q9_bin	9	50	0.74	0.44	1	0.80	0	0	1	1	0.06
## q10_bin	10	50	0.70	0.46	1	0.75	0	0	1	1	0.07
## q11_bin	11	50	0.74	0.44	1	0.80	0	0	1	1	0.06
## q12_bin	12	50	0.44	0.50	0	0.42	0	0	1	1	0.07

Correlation Matrix

```
cor(data[2:(N+1)], method="pearson")
```

```
##          q1          q2          q3          q4          q5          q6          q7
## q1  1.0000000  0.6516846  0.5538186  0.5437716  0.35056299  0.8508619  0.5474399
## q2  0.6516846  1.0000000  0.7083454  0.7210350  0.40058217  0.7184420  0.4907741
## q3  0.5538186  0.7083454  1.0000000  0.8085600  0.52210961  0.6927620  0.4431127
## q4  0.5437716  0.7210350  0.8085600  1.0000000  0.47004187  0.6082709  0.4722824
## q5  0.3505630  0.4005822  0.5221096  0.4700419  1.00000000  0.4902799  0.2276194
## q6  0.8508619  0.7184420  0.6927620  0.6082709  0.49027990  1.0000000  0.5939518
## q7  0.5474399  0.4907741  0.4431127  0.4722824  0.22761945  0.5939518  1.0000000
## q8  0.5077374  0.4061044  0.5360563  0.4527751  0.38818157  0.5374215  0.5009794
## q9  0.4203499  0.4978173  0.6383600  0.7463375  0.46788154  0.5032883  0.5905322
## q10 0.2653708  0.2960370  0.3923650  0.4132214  0.17471293  0.2866786  0.2542745
## q11 0.6074110  0.6799569  0.7339707  0.7909204  0.42076117  0.6246608  0.6440975
## q12 0.1842051  0.4282891  0.4340486  0.3909671  0.09561001  0.2806650  0.1761157
##          q8          q9          q10          q11          q12
## q1  0.5077374  0.4203499  0.2653708  0.6074110  0.18420514
## q2  0.4061044  0.4978173  0.2960370  0.6799569  0.42828910
## q3  0.5360563  0.6383600  0.3923650  0.7339707  0.43404857
## q4  0.4527751  0.7463375  0.4132214  0.7909204  0.39096708
## q5  0.3881816  0.4678815  0.1747129  0.4207612  0.09561001
## q6  0.5374215  0.5032883  0.2866786  0.6246608  0.28066501
## q7  0.5009794  0.5905322  0.2542745  0.6440975  0.17611565
## q8  1.0000000  0.4903085  0.3443061  0.4440270  0.16482587
## q9  0.4903085  1.0000000  0.5635647  0.7946691  0.31509751
## q10 0.3443061  0.5635647  1.0000000  0.4894316  0.52066191
## q11 0.4440270  0.7946691  0.4894316  1.0000000  0.45352029
## q12 0.1648259  0.3150975  0.5206619  0.4535203  1.00000000
```

Average R

```
alpha(data[2:(N+1)])$total$aaverage_r
```

```
## [1] 0.4881043
```

Raw Alpha and Standardized Alpha

Raw Alpha

```
alpha(data[2:(N+1)])$total$raw_alpha
```

```
## [1] 0.9166612
```

Standardized Alpha

```
alpha(data[2:(N+1)])$total$std.alpha
```

```
## [1] 0.9196288
```

Summary Statistics of Mean Scale Score and Factor Score

Mean Scale Score

```
describe(data$mean, skew = FALSE)
```

```
##   vars  n mean   sd median trimmed  mad min  max range   se
## 1     1 50 3.69 0.77      4    3.76 0.56   2 4.83  2.83 0.11
```

Factor Score

```
describe(data$MR1, skew = FALSE)
```

```
##   vars  n mean   sd median trimmed  mad  min  max range   se
## 1     1 50  0 0.97   0.3   0.08 0.82 -2.05 1.32  3.37 0.14
```

Correlation between Mean Scale Score and Factor Score

```
cor(data$mean, data$MR1, method="pearson")
```

```
## [1] 0.9849172
```