

| Obs | X01 | X02 | X03 | X04 | X05 | X06 | X07 | X08 | X09 | X10 |
|-----|------|------|------|------|------|------|------|------|------|------|
| 1 | 7.69 | 7.31 | 7.47 | 7.76 | 7.87 | 7.51 | 7.24 | 7.70 | 7.91 | 7.95 |
| 2 | 6.59 | 5.56 | 6.21 | 6.04 | 5.81 | 6.64 | 6.11 | 6.53 | 6.44 | 6.64 |
| 3 | 4.55 | 4.18 | 4.36 | 4.25 | 4.53 | 4.60 | 3.66 | 4.04 | 3.68 | 4.43 |
| 4 | 6.78 | 6.11 | 6.30 | 5.98 | 5.56 | 6.37 | 6.29 | 5.43 | 5.32 | 5.28 |
| 5 | 6.47 | 6.24 | 6.02 | 5.42 | 5.88 | 6.00 | 5.60 | 4.60 | 5.40 | 5.95 |
| 6 | 6.96 | 6.81 | 6.91 | 6.48 | 6.23 | 7.09 | 7.27 | 7.13 | 6.86 | 7.36 |
| 7 | 6.57 | 5.70 | 5.89 | 5.16 | 5.30 | 6.07 | 5.56 | 4.50 | 4.92 | 5.33 |
| 8 | 7.32 | 6.95 | 6.02 | 4.98 | 4.88 | 6.82 | 6.40 | 5.53 | 5.61 | 5.33 |
| 9 | 6.51 | 6.15 | 5.51 | 4.68 | 4.16 | 5.17 | 4.81 | 4.70 | 4.86 | 3.82 |
| 10 | 6.86 | 6.05 | 5.85 | 6.14 | 6.75 | 6.71 | 5.39 | 5.42 | 6.03 | 6.59 |

The PRINCOMP Procedure

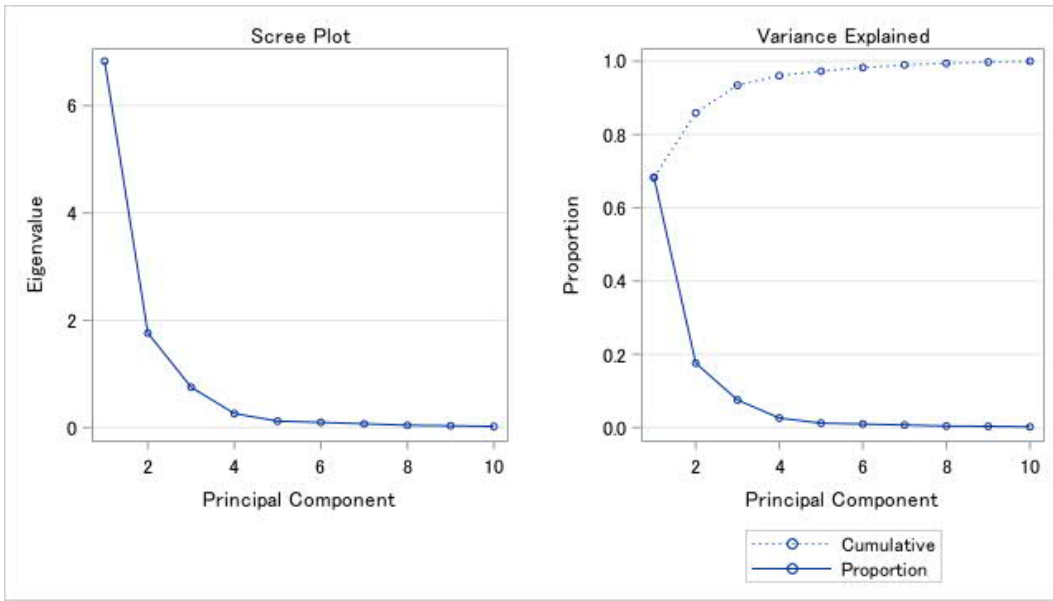
| | |
|--------------|-----|
| Observations | 100 |
| Variables | 10 |

| Simple Statistics | | | | | | | | | | |
|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | X01 | X02 | X03 | X04 | X05 | X06 | X07 | X08 | X09 | X10 |
| Mean | 6.038100000 | 5.784800000 | 5.947100000 | 5.669500000 | 5.640600000 | 5.781300000 | 5.563900000 | 5.379400000 | 5.517400000 | 5.542100000 |
| StD | 1.239147389 | 1.034139939 | 0.825972699 | 0.915395124 | 0.884228614 | 1.294327683 | 1.182607883 | 1.121124814 | 1.016264322 | 1.130856737 |

| Correlation Matrix | | | | | | | | | | | |
|--------------------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | X01 | X02 | X03 | X04 | X05 | X06 | X07 | X08 | X09 | X10 |
| X01 | M(-15) | 1.0000 | 0.8708 | 0.5158 | 0.3701 | 0.1723 | 0.9384 | 0.8107 | 0.6161 | 0.5003 | 0.3298 |
| X02 | M(16-20) | 0.8708 | 1.0000 | 0.7588 | 0.6043 | 0.4021 | 0.8207 | 0.8381 | 0.7095 | 0.6470 | 0.4569 |
| X03 | M(21-30) | 0.5158 | 0.7588 | 1.0000 | 0.8524 | 0.7262 | 0.5164 | 0.6584 | 0.6990 | 0.7013 | 0.5584 |
| X04 | M(31-40) | 0.3701 | 0.6043 | 0.8524 | 1.0000 | 0.8742 | 0.3580 | 0.4875 | 0.6199 | 0.7207 | 0.6321 |
| X05 | M(41-) | 0.1723 | 0.4021 | 0.7262 | 0.8742 | 1.0000 | 0.2077 | 0.3543 | 0.5235 | 0.7101 | 0.7479 |
| X06 | F(-15) | 0.9384 | 0.8207 | 0.5164 | 0.3580 | 0.2077 | 1.0000 | 0.8888 | 0.7465 | 0.6215 | 0.4932 |
| X07 | F(16-20) | 0.8107 | 0.8381 | 0.6584 | 0.4875 | 0.3543 | 0.8888 | 1.0000 | 0.8949 | 0.7679 | 0.6415 |
| X08 | F(21-30) | 0.6161 | 0.7095 | 0.6990 | 0.6199 | 0.5235 | 0.7465 | 0.8949 | 1.0000 | 0.8528 | 0.7741 |
| X09 | F(31-40) | 0.5003 | 0.6470 | 0.7013 | 0.7207 | 0.7101 | 0.6215 | 0.7679 | 0.8528 | 1.0000 | 0.9112 |
| X10 | F(41-) | 0.3298 | 0.4569 | 0.5584 | 0.6321 | 0.7479 | 0.4932 | 0.6415 | 0.7741 | 0.9112 | 1.0000 |

| Eigenvalues of the Correlation Matrix | | | | |
|---------------------------------------|------------|------------|------------|------------|
| | Eigenvalue | Difference | Proportion | Cumulative |
| 1 | 6.82795512 | 5.06608201 | 0.6828 | 0.6828 |
| 2 | 1.76187311 | 1.00742187 | 0.1762 | 0.8590 |
| 3 | 0.75445124 | 0.49207487 | 0.0754 | 0.9344 |
| 4 | 0.26237637 | 0.14082435 | 0.0262 | 0.9607 |
| 5 | 0.12155202 | 0.02358655 | 0.0122 | 0.9728 |
| 6 | 0.09796547 | 0.02586580 | 0.0098 | 0.9826 |
| 7 | 0.07209967 | 0.02801926 | 0.0072 | 0.9898 |
| 8 | 0.04408041 | 0.00832792 | 0.0044 | 0.9942 |
| 9 | 0.03575249 | 0.01385842 | 0.0036 | 0.9978 |
| 10 | 0.02189408 | | 0.0022 | 1.0000 |

| Eigenvectors | | | | | | | | | | | |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | | Prin1 | Prin2 | Prin3 | Prin4 | Prin5 | Prin6 | Prin7 | Prin8 | Prin9 | Prin10 |
| X01 | M(-15) | 0.286033 | -0.446335 | 0.193512 | 0.428019 | 0.162365 | -0.016413 | -0.062138 | -0.038493 | -0.141617 | 0.668052 |
| X02 | M(16-20) | 0.331337 | -0.239842 | 0.336063 | 0.022488 | -0.559594 | -0.212367 | 0.479465 | 0.283325 | -0.013739 | -0.225064 |
| X03 | M(21-30) | 0.323345 | 0.166337 | 0.442291 | -0.436029 | -0.168594 | 0.476929 | -0.416354 | 0.136150 | 0.085922 | 0.163960 |
| X04 | M(31-40) | 0.299329 | 0.358627 | 0.375366 | 0.063449 | 0.367912 | -0.562491 | -0.066245 | -0.114301 | 0.403713 | -0.068344 |
| X05 | M(41-) | 0.260727 | 0.507209 | 0.127419 | 0.375425 | 0.146879 | 0.385123 | 0.325310 | -0.167534 | -0.437833 | -0.148648 |
| X06 | F(-15) | 0.308635 | -0.407882 | -0.083695 | 0.267375 | 0.286866 | 0.209878 | -0.335058 | 0.176137 | 0.090538 | -0.618107 |
| X07 | F(16-20) | 0.344271 | -0.252697 | -0.171400 | -0.295655 | -0.025050 | 0.137469 | 0.236104 | -0.762654 | 0.204382 | -0.046351 |
| X08 | F(21-30) | 0.347877 | -0.032314 | -0.289087 | -0.507508 | 0.452377 | -0.128390 | 0.256135 | 0.382983 | -0.303270 | 0.106863 |
| X09 | F(31-40) | 0.345636 | 0.164368 | -0.322236 | 0.040012 | -0.388944 | -0.387189 | -0.488821 | -0.161974 | -0.425188 | -0.030381 |
| X10 | F(41-) | 0.303334 | 0.267273 | -0.522559 | 0.251270 | -0.190507 | 0.181955 | 0.100632 | 0.270185 | 0.543107 | 0.229904 |



| Obs | X01 | X02 | X03 | X04 | X05 | X06 | X07 | X08 | X09 | X10 | Prin1 | Prin2 | Prin3 | Prin4 | Prin5 | Prin6 | Prin7 | Prin8 | Prin9 | Prin10 |
|-----|------|------|------|------|------|------|------|------|------|------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 1 | 7.69 | 7.31 | 7.47 | 7.76 | 7.87 | 7.51 | 7.24 | 7.70 | 7.91 | 7.95 | 5.88693 | 1.44204 | -0.07882 | 0.40809 | 0.25348 | -0.08404 | 0.00629 | 0.07518 | -0.29432 | 0.07804 |
| 2 | 6.59 | 5.56 | 6.21 | 6.04 | 5.81 | 6.64 | 6.11 | 6.53 | 6.44 | 6.64 | 1.65842 | 0.13686 | -0.90098 | -0.05516 | 0.42231 | -0.06712 | -0.42537 | 0.15924 | 0.03126 | 0.21633 |
| 3 | 4.55 | 4.18 | 4.36 | 4.25 | 4.53 | 4.60 | 3.66 | 4.04 | 3.68 | 4.43 | -4.44537 | -0.34692 | -0.55169 | 0.23782 | 0.37097 | 0.08301 | 0.22924 | 0.36927 | 0.13546 | -0.13545 |
| 4 | 6.78 | 6.11 | 6.30 | 5.98 | 5.56 | 6.37 | 6.29 | 5.43 | 5.32 | 5.28 | 0.72138 | -0.63217 | 0.55357 | -0.08449 | 0.21583 | 0.10836 | -0.04069 | -0.30130 | 0.23414 | 0.03747 |
| 5 | 6.47 | 6.24 | 6.02 | 5.42 | 5.88 | 6.00 | 5.60 | 4.60 | 5.40 | 5.95 | 0.15339 | -0.18363 | 0.21693 | 0.67993 | -0.55569 | 0.43975 | 0.12407 | -0.03449 | 0.20098 | 0.03292 |
| 6 | 6.96 | 6.81 | 6.91 | 6.48 | 6.23 | 7.09 | 7.27 | 7.13 | 6.86 | 7.36 | 3.65322 | 0.09908 | -0.63902 | -0.35301 | -0.06665 | 0.08296 | 0.01967 | 0.09429 | 0.27099 | 0.10991 |
| 7 | 6.57 | 5.70 | 5.89 | 5.16 | 5.30 | 6.07 | 5.56 | 4.50 | 4.92 | 5.33 | -0.65902 | -0.78995 | 0.26301 | 0.42015 | -0.16052 | 0.48267 | -0.13359 | -0.13508 | 0.28383 | 0.14238 |
| 8 | 7.32 | 6.95 | 6.02 | 4.98 | 4.88 | 6.82 | 6.40 | 5.53 | 5.61 | 5.33 | 0.76044 | -1.96919 | 0.06701 | -0.04720 | -0.60733 | 0.05720 | 0.07830 | 0.10980 | -0.04606 | 0.07099 |
| 9 | 6.51 | 6.15 | 5.51 | 4.68 | 4.16 | 5.17 | 4.81 | 4.70 | 4.86 | 3.82 | -1.96687 | -1.71968 | 0.66740 | -0.33431 | -0.54215 | -0.50605 | -0.09164 | 0.28167 | -0.34880 | 0.33721 |
| 10 | 6.86 | 6.05 | 5.85 | 6.14 | 6.75 | 6.71 | 5.39 | 5.42 | 6.03 | 6.59 | 1.35649 | 0.51749 | -0.17674 | 1.31452 | 0.21057 | 0.17171 | 0.08563 | 0.18324 | -0.13665 | -0.09062 |
| 11 | 7.04 | 6.03 | 6.53 | 6.02 | 6.68 | 6.78 | 5.91 | 6.26 | 5.76 | 5.95 | 1.76317 | 0.15476 | 0.23456 | 0.33063 | 0.60092 | 0.58481 | 0.05801 | 0.16376 | -0.43135 | 0.07070 |
| 12 | 6.59 | 6.30 | 6.29 | 5.94 | 6.10 | 5.93 | 5.52 | 5.35 | 5.45 | 5.85 | 0.72383 | 0.14551 | 0.49777 | 0.35538 | -0.09548 | 0.21636 | 0.19362 | 0.18252 | 0.04441 | 0.14858 |
| 13 | 5.93 | 4.76 | 5.09 | 5.51 | 5.79 | 5.49 | 4.97 | 4.69 | 5.30 | 5.61 | -1.20892 | 0.34668 | -0.53251 | 0.85212 | 0.41764 | -0.06351 | -0.06122 | -0.26835 | -0.02047 | 0.09838 |
| 14 | 7.00 | 6.31 | 6.82 | 6.26 | 5.26 | 6.69 | 6.27 | 5.94 | 5.78 | 5.26 | 1.42272 | -0.75706 | 0.71704 | -0.53272 | 0.19744 | -0.12540 | -0.54510 | 0.00683 | 0.21138 | 0.12406 |
| 15 | 6.63 | 5.47 | 5.54 | 4.88 | 4.70 | 5.89 | 4.64 | 4.43 | 4.00 | 3.98 | -2.13183 | -1.49511 | 0.88751 | 0.23480 | 0.36191 | 0.24293 | -0.09797 | 0.25997 | 0.00113 | 0.14547 |

