**Correlation**

**Overall**

Attrition\_Y\_N Grades MAP.Score Number\_Absent Number\_Disc\_Incidents weeks\_enrolled years\_enrolled

Attrition\_Y\_N 1.00000000 -0.18624440 0.04556874 -0.13436228 0.033029262 -0.191785614 -0.187354966

Grades -0.18624440 1.00000000 0.30719087 -0.15948365 -0.047589101 0.018581518 0.018403877

MAP.Score 0.04556874 0.30719087 1.00000000 0.01622631 -0.035380127 0.211137477 0.210615075

Number\_Absent -0.13436228 -0.15948365 0.01622631 1.00000000 0.010183073 0.270809394 0.269330224

Number\_Disc\_Inci 0.03302926 -0.04758910 -0.03538013 0.01018307 1.000000000 -0.004676578 -0.006036063

weeks\_enrolled -0.19178561 0.01858152 0.21113748 0.27080939 -0.004676578 1.000000000 0.999998339

years\_enrolled -0.18735497 0.01840388 0.21061508 0.26933022 -0.006036063 0.999998339 1.000000000

Miles\_Distance 0.01412457 0.05075604 0.01013850 -0.04742614 0.046373200 -0.017606632 -0.015950155

Miles\_Distance\_House\_School

Attrition\_Y\_N 0.01412457

Grades 0.05075604

MAP.Score 0.01013850

Number\_Absent -0.04742614

Number\_Disc\_Incidents 0.04637320

weeks\_enrolled -0.01760663

years\_enrolled -0.01595015

Miles\_Distance\_House\_School 1.00000000

**Withdrawn Students**

> cor(drop[4:9],use="pairwise.complete.obs")  
 Grades MAP.Score Number\_Absent Number\_Disc\_Incidents weeks\_enrolled years\_enrolled

Grades 1.00000000 0.28177252 -0.11392529 -0.05645378 -0.04174228 -0.04198014

MAP.Score 0.28177252 1.00000000 -0.01493086 -0.06253292 0.16267784 0.16034697

Number\_Absent -0.11392529 -0.01493086 1.00000000 0.00312140 0.33542116 0.33412309

Number\_Disc\_Incidents -0.05645378 -0.06253292 0.00312140 1.00000000 -0.01581183 -0.01901756

weeks\_enrolled -0.04174228 0.16267784 0.33542116 -0.01581183 1.00000000 0.99999838

years\_enrolled -0.04198014 0.16034697 0.33412309 -0.01901756 0.99999838 1.00000000

Miles\_Distance\_House\_School 0.06468459 0.03209696 -0.04815532 0.09372505 -0.03186241 -0.02923047

Miles\_Distance\_House\_School

Grades 0.06468459

MAP.Score 0.03209696

Number\_Absent -0.04815532

Number\_Disc\_Incidents 0.09372505

weeks\_enrolled -0.03186241

years\_enrolled -0.02923047

Miles\_Distance\_House\_School 1.00000000

**Retained Students**

> cor(stay[4:9],use = "pairwise.complete.obs")  
 Grades MAP.Score Number\_Absent Number\_Disc\_Incidents weeks\_enrolled years\_enrolled

Grades 1.000000000 0.37849224 -0.29617241 -0.02577628 -0.003640221 -0.003506382

MAP.Score 0.378492236 1.00000000 0.05150328 -0.01735973 0.262419891 0.262541198

Number\_Absent -0.296172415 0.05150328 1.00000000 0.02455865 0.199449316 0.199333393

Number\_Disc\_Incidents -0.025776282 -0.01735973 0.02455865 1.00000000 0.014399362 0.014289674

weeks\_enrolled -0.003640221 0.26241989 0.19944932 0.01439936 1.000000000 0.999998308

years\_enrolled -0.003506382 0.26254120 0.19933339 0.01428967 0.999998308 1.000000000

Miles\_Distance\_House\_School 0.036864970 -0.01850990 -0.04634394 -0.01736324 0.001246254 0.001150159

Miles\_Distance\_House\_School

Grades 0.036864970

MAP.Score -0.018509903

Number\_Absent -0.046343942

Number\_Disc\_Incidents -0.017363243

weeks\_enrolled 0.001246254

years\_enrolled 0.001150159

Miles\_Distance\_House\_School 1.000000000

|  |
| --- |
| **Classification**  Groups of Students **WITHDRAWN** and number of each group:  1 2 3 4 5 6 7 8 9 10 11 12 13 14  277 107 60 112 141 164 67 41 133 53 30 150 55 9  Group Grades MAP.Score Number\_Absent Num\_Disc weeks\_enrol years\_enrol Distance  1 1 82.77731 65.40061 3.187726 1.971119 45.15809 0.8670758 4.654412  2 2 80.24912 52.10589 2.719626 1.878505 211.83037 4.0632710 5.102851  3 3 77.93337 20.61383 3.450000 2.366667 162.72417 3.1201667 4.200472  4 4 84.50878 64.93804 4.437500 1.866071 161.78259 3.1020536 4.188804  5 5 83.82038 56.38525 2.475177 2.056738 111.75943 2.1421277 3.760092  6 6 81.25878 22.44311 0.695122 2.091463 57.00579 1.0942073 4.540868  7 7 78.31924 48.66448 7.597015 1.910448 273.54761 5.2479104 3.988069  8 8 79.04617 40.07537 90.804878 2.658537 187.20561 3.5897561 2.844363  9 9 77.89304 23.73541 4.240602 2.000000 100.05737 1.9185714 4.162519  10 10 80.26657 55.78302 89.509434 1.792453 283.75717 5.4415094 3.718596  11 11 78.33690 44.56367 198.700000 1.400000 283.47167 5.4366667 3.848219  12 12 80.10013 24.16427 3.006667 2.193333 19.95800 0.3826000 4.043415  13 13 75.44760 28.02309 83.345455 2.490909 52.70873 1.0100000 3.123957  14 14 69.17328 29.57444 326.777778 2.444444 73.01556 1.4011111 2.345432 |
| ----------------------------------------------------------------------------------------------------------------------- |

Groups of Students **WHO STAYED** and number of each group:

Group.1 Grades MAP.Score Number\_Absent Number\_Disc\_Incidents weeks\_enrolled years\_enrolled Miles\_Distance\_House\_School

1 1 86.54638 48.67045 14.57840 2.094077 216.24714 4.1492683 4.133589

2 2 83.30594 48.00039 1.03876 1.503876 341.91310 6.5579070 4.572788

3 3 82.29747 44.79381 78.19588 1.917526 223.55814 4.2874227 3.740378

4 4 80.29560 55.90290 163.29032 1.741935 332.40839 6.3751613 4.019643

5 5 83.40016 57.09719 69.35088 1.666667 320.75061 6.1510526 4.365629

6 6 71.75675 34.42667 223.62500 2.875000 112.35958 2.1541667 2.929262

7 7 85.72963 42.74440 14.74800 2.296000 149.57240 2.8686400 4.358826

8 8 80.82883 30.22195 62.54688 2.054688 120.23422 2.3044531 3.613798

9 9 78.10200 32.89255 125.60000 1.763636 74.03891 1.4207273 4.581513

10 10 85.25352 39.50726 10.95484 2.000000 99.92158 1.9141290 4.271525

11 11 86.56820 52.95575 20.56410 1.706960 49.35527 0.9502930 3.423060

12 12 81.23871 12.61530 21.86364 1.691919 44.54879 0.8568687 3.986701

Groups of Students Stay and number of each group

1 2 3 4 5 6 7 8 9 10 11 12

287 129 97 31 114 24 250 128 55 310 273 198