OLS and Multilevel Models for Reading and Math Scores

|  | OLS - Reading (z) | OLS - Math (z) | Multilevel - Reading | Multilevel - Math |
| --- | --- | --- | --- | --- |
| (Intercept) | -0.268\*\*\* | -0.275\*\*\* | -0.267\*\*\* | -0.276\*\*\* |
|  | (0.008) | (0.006) | (0.007) | (0.007) |
| factor(household\_income\_quintile)2 | 0.170\*\*\* | 0.184\*\*\* | 0.169\*\*\* | 0.186\*\*\* |
|  | (0.006) | (0.005) | (0.005) | (0.005) |
| factor(household\_income\_quintile)3 | 0.353\*\*\* | 0.354\*\*\* | 0.351\*\*\* | 0.354\*\*\* |
|  | (0.007) | (0.006) | (0.006) | (0.006) |
| factor(household\_income\_quintile)4 | 0.533\*\*\* | 0.534\*\*\* | 0.533\*\*\* | 0.541\*\*\* |
|  | (0.009) | (0.008) | (0.008) | (0.008) |
| factor(household\_income\_quintile)5 | 0.711\*\*\* | 0.710\*\*\* | 0.714\*\*\* | 0.718\*\*\* |
|  | (0.014) | (0.012) | (0.012) | (0.012) |
| female | 0.004 | 0.003 | 0.007 | -0.002 |
|  | (0.005) | (0.004) | (0.004) | (0.004) |
| rural | -0.262\*\*\* | -0.262\*\*\* | -0.255\*\*\* | -0.257\*\*\* |
|  | (0.005) | (0.005) | (0.005) | (0.005) |
| disability\_statusYes | 0.018 | 0.018+ | 0.017 | 0.018+ |
|  | (0.012) | (0.011) | (0.011) | (0.011) |
| avg\_injob\_training\_last5yrs | 0.002 |  |  |  |
|  | (0.006) |  |  |  |
| parent\_education\_levelPrimary | 0.007 | 0.017\*\* | 0.007 | 0.017\*\* |
|  | (0.006) | (0.005) | (0.005) | (0.005) |
| parent\_education\_levelSecondary | -0.006 | 0.004 | -0.005 | 0.003 |
|  | (0.006) | (0.006) | (0.006) | (0.006) |
| parent\_education\_levelTertiary | -0.010 | -0.009 | -0.010 | -0.009 |
|  | (0.011) | (0.010) | (0.010) | (0.010) |
| attendance\_centered | 0.856\*\*\* | 0.858\*\*\* | 0.818\*\*\* | 0.817\*\*\* |
|  | (0.040) | (0.036) | (0.035) | (0.035) |
| factor(year)2024 | 0.122\*\*\* | 0.122\*\*\* | 0.119\*\*\* | 0.122\*\*\* |
|  | (0.006) | (0.005) | (0.005) | (0.005) |
| factor(year)2025 | 0.240\*\*\* | 0.244\*\*\* | 0.239\*\*\* | 0.244\*\*\* |
|  | (0.006) | (0.005) | (0.005) | (0.005) |
| SD (Intercept school\_id) |  |  | 0.315 | 0.321 |
| SD (Intercept district\_id) |  |  | 0.000 | 0.000 |
| SD (Observations) |  |  | 0.955 | 0.956 |
| Num.Obs. | 155831 | 192000 | 192000 | 192000 |
| R2 | 0.089 | 0.089 |  |  |
| * p < 0.1, \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | | |