

Vertical = (1*,4A,3A,2A,S) Yardstick (columns lines low high extreme)=

| Measr | +Students | -Items | -Domain | -Gender |
|--------|-----------|--------|---------|---------|
| 3 | + | + | + | + |
| . | | | | |
| * | | | | |
| * | | | | |
| 2 | + | + | + | + |
| * | | | | |
| . | | 50 | | |
| ** | | | | |
| *** | | 19 | | |
| * | | | | |
| ** | | 17 | 26 | |
| ** | | | | |
| **** | | 11 | | |
| 1 | + | ***** | + | + |
| * | | 29 | 46 | 8 |
| * | | 15 | | |
| **** | | 14 | | |
| ***** | | 24 | 33 | 36 |
| ***** | | | | |
| **** | | 3 | 4 | |
| **** | | 20 | 40 | 44 |
| **** | | | | |
| ***** | | 23 | 5 | 9 |
| ** | | 2 | 21 | 27 |
| 38 | | | | |
| STEI | | | | |
| STSC | | | | |
| RC | | | | |
| WREI | | | | |
| Female | | | | |
| Male | | | | |
| * | 0 | * | * | * |
| ***** | | 32 | | |
| ***** | | 16 | 25 | |
| **** | | 12 | 30 | 43 |
| ** | | 35 | | |
| *** | | 10 | 31 | 48 |
| ** | | 34 | | |
| *** | | 22 | 37 | 47 |
| *** | | 39 | | |
| ** | | 45 | | |
| * | | 1 | 18 | |
| -1 | + | + | + | + |
| * | | 13 | 41 | 49 |
| . | | | | |
| * | | 42 | | |
| * | | | | |
| * | | 6 | | |
| ** | | | | |
| ** | | 28 | 7 | |
| . | | | | |
| * | | | | |
| -2 | + | + | + | + |
| Measr | * = 2 | -Items | -Domain | -Gender |

| Total Score | Total Count | Obsvd Average | Fair(M) Average | + Measure | Model S.E. | Infit MnSq | ZStd | Outfit MnSq | ZStd | Estim. Discrm | Correlation PtMea | PtExp | Num Students |
|-------------|-------------|---------------|-----------------|-----------|------------|------------|------|-------------|------|---------------|-------------------|-------|--------------|
| 45 | 50 | .90 | .92 | 2.48 | .49 | 1.01 | .1 | 1.64 | 1.1 | .96 | .21 | .27 | 93 93 |
| 44 | 50 | .88 | .91 | 2.28 | .46 | .80 | -.5 | .49 | -1.0 | 1.20 | .52 | .29 | 161 161 |
| 44 | 50 | .88 | .91 | 2.26 | .46 | 1.03 | .1 | .87 | -.1 | .99 | .28 | .29 | 228 228 |
| 44 | 50 | .88 | .91 | 2.26 | .46 | 1.00 | .1 | 1.52 | 1.0 | .96 | .23 | .29 | 229 229 |
| 43 | 50 | .86 | .89 | 2.06 | .43 | .83 | -.5 | .58 | -.9 | 1.18 | .50 | .30 | 2 2 |
| 43 | 50 | .86 | .89 | 2.06 | .43 | 1.08 | .3 | .99 | .1 | .94 | .23 | .30 | 224 224 |
| 42 | 50 | .84 | .87 | 1.91 | .41 | .89 | -.3 | 1.06 | .2 | 1.10 | .41 | .32 | 133 133 |
| 42 | 50 | .84 | .87 | 1.89 | .41 | .89 | -.3 | 1.18 | .5 | 1.07 | .38 | .32 | 187 187 |
| 41 | 50 | .82 | .85 | 1.75 | .39 | .87 | -.5 | .64 | -.9 | 1.19 | .49 | .33 | 116 116 |
| 41 | 50 | .82 | .85 | 1.73 | .39 | .98 | .0 | .74 | -.6 | 1.08 | .40 | .33 | 37 37 |
| 41 | 50 | .82 | .85 | 1.73 | .39 | .96 | .0 | .99 | .1 | 1.03 | .35 | .33 | 86 86 |
| 41 | 50 | .82 | .85 | 1.73 | .39 | .96 | -.1 | .78 | -.5 | 1.08 | .40 | .33 | 190 190 |
| 39 | 48 | .81 | .84 | 1.66 | .40 | .89 | -.4 | .67 | -.8 | 1.17 | .48 | .34 | 104 104 |
| 40 | 49 | .82 | .84 | 1.65 | .39 | 1.00 | .0 | 1.43 | 1.1 | .92 | .25 | .33 | 196 196 |
| 40 | 50 | .80 | .83 | 1.60 | .38 | .89 | -.4 | .67 | -.9 | 1.19 | .49 | .34 | 119 119 |
| 40 | 50 | .80 | .83 | 1.58 | .38 | .79 | -1.0 | .60 | -1.2 | 1.29 | .57 | .34 | 1 1 |
| 40 | 50 | .80 | .83 | 1.58 | .38 | .88 | -.5 | 1.18 | .6 | 1.09 | .41 | .34 | 3 3 |
| 40 | 50 | .80 | .83 | 1.58 | .38 | .86 | -.6 | .77 | -.6 | 1.17 | .48 | .34 | 8 8 |
| 40 | 50 | .80 | .83 | 1.58 | .38 | .87 | -.5 | .82 | -.4 | 1.17 | .47 | .34 | 38 38 |
| 40 | 50 | .80 | .83 | 1.58 | .38 | .85 | -.6 | .69 | -.9 | 1.21 | .51 | .34 | 220 220 |
| 20 | 25 | .80 | .82 | 1.53 | .53 | .87 | -.3 | .65 | -.7 | 1.21 | .50 | .33 | 113 113 |
| 39 | 50 | .78 | .81 | 1.46 | .37 | 1.00 | .0 | .82 | -.5 | 1.05 | .39 | .35 | 105 105 |
| 39 | 50 | .78 | .81 | 1.46 | .37 | .92 | -.3 | .72 | -.8 | 1.16 | .46 | .35 | 163 163 |
| 39 | 50 | .78 | .81 | 1.44 | .37 | 1.02 | .1 | .96 | .0 | .98 | .34 | .35 | 21 21 |
| 39 | 50 | .78 | .81 | 1.44 | .37 | 1.04 | .2 | .88 | -.2 | 1.00 | .34 | .35 | 52 52 |
| 39 | 50 | .78 | .81 | 1.44 | .37 | 1.10 | .5 | .90 | -.2 | .93 | .30 | .35 | 188 188 |
| 39 | 50 | .78 | .81 | 1.44 | .37 | .91 | -.3 | .76 | -.7 | 1.15 | .46 | .35 | 191 191 |
| 33 | 43 | .77 | .80 | 1.37 | .39 | .96 | -.1 | 1.33 | 1.0 | .96 | .32 | .36 | 130 130 |
| 38 | 50 | .76 | .79 | 1.33 | .36 | .70 | -1.8 | .53 | -1.8 | 1.47 | .67 | .36 | 148 148 |
| 38 | 50 | .76 | .79 | 1.33 | .36 | .96 | -.1 | 1.21 | .7 | .99 | .35 | .36 | 150 150 |
| 38 | 50 | .76 | .79 | 1.31 | .36 | .79 | -1.1 | .63 | -1.3 | 1.34 | .58 | .36 | 28 28 |
| 38 | 50 | .76 | .79 | 1.31 | .36 | .82 | -.9 | .70 | -1.0 | 1.28 | .55 | .36 | 210 210 |
| 37 | 49 | .76 | .78 | 1.24 | .36 | .87 | -.6 | .73 | -.9 | 1.23 | .51 | .36 | 48 48 |
| 37 | 50 | .74 | .77 | 1.21 | .35 | .80 | -1.1 | .68 | -1.2 | 1.34 | .57 | .37 | 179 179 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | .89 | -.6 | .96 | .0 | 1.14 | .45 | .37 | 41 41 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | .97 | -.1 | .83 | -.5 | 1.09 | .42 | .37 | 51 51 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | .97 | -.1 | 1.07 | .3 | 1.00 | .36 | .37 | 61 61 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | 1.00 | .0 | .93 | -.1 | 1.02 | .38 | .37 | 92 92 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | .95 | -.2 | 1.11 | .4 | 1.03 | .38 | .37 | 203 203 |
| 37 | 50 | .74 | .77 | 1.19 | .35 | 1.16 | .9 | 1.32 | 1.1 | .72 | .19 | .37 | 227 227 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | 1.22 | 1.3 | 1.27 | 1.1 | .60 | .15 | .38 | 59 59 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | 1.09 | .5 | 1.20 | .8 | .81 | .27 | .38 | 74 74 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | 1.15 | .9 | 1.73 | 2.5 | .55 | .12 | .38 | 94 94 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | .98 | .0 | .98 | .0 | 1.03 | .39 | .38 | 189 189 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | .84 | -.9 | .76 | -.9 | 1.29 | .53 | .38 | 207 207 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | .98 | .0 | .90 | -.3 | 1.06 | .40 | .38 | 212 212 |
| 36 | 50 | .72 | .74 | 1.07 | .34 | 1.05 | .3 | 1.06 | .3 | .90 | .32 | .38 | 216 216 |
| 35 | 50 | .70 | .73 | .98 | .33 | 1.08 | .5 | .99 | .0 | .90 | .33 | .38 | 99 99 |
| 35 | 50 | .70 | .73 | .98 | .33 | .93 | -.3 | .83 | -.6 | 1.16 | .46 | .38 | 121 121 |
| 35 | 50 | .70 | .73 | .98 | .33 | .79 | -1.4 | .67 | -1.5 | 1.44 | .60 | .38 | 126 126 |
| 35 | 50 | .70 | .73 | .98 | .33 | 1.07 | .4 | 1.18 | .8 | .84 | .29 | .38 | 129 129 |
| 35 | 50 | .70 | .73 | .98 | .33 | 1.14 | .9 | 1.00 | .0 | .81 | .28 | .38 | 155 155 |
| 35 | 50 | .70 | .72 | .95 | .33 | .96 | -.1 | .99 | .0 | 1.06 | .41 | .38 | 5 5 |
| 35 | 50 | .70 | .72 | .95 | .33 | .94 | -.3 | .81 | -.8 | 1.17 | .46 | .38 | 22 22 |
| 35 | 50 | .70 | .72 | .95 | .33 | .83 | -1.1 | .72 | -1.3 | 1.35 | .56 | .38 | 26 26 |
| 35 | 50 | .70 | .72 | .95 | .33 | .97 | -.1 | 1.04 | .2 | 1.03 | .39 | .38 | 33 33 |
| 35 | 50 | .70 | .72 | .95 | .33 | .95 | -.2 | .86 | -.5 | 1.12 | .44 | .38 | 57 57 |
| 35 | 50 | .70 | .72 | .95 | .33 | 1.05 | .3 | .92 | -.2 | .97 | .36 | .38 | 78 78 |

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| | | | | | | | | | | | | | | | |
|---|------|-----|-----|-------|-----|------|-----|------|-----|------|------|-----|-------------------|-----|---|
| 17 | 49 | .35 | .32 | -.77 | .33 | 1.03 | .2 | .98 | .0 | .95 | .36 | .39 | 141 | 141 | j |
| 17 | 50 | .34 | .31 | -.81 | .32 | 1.24 | 1.7 | 1.36 | 1.6 | .38 | .12 | .38 | 169 | 169 | j |
| 17 | 50 | .34 | .31 | -.81 | .32 | 1.05 | .3 | .99 | .0 | .92 | .34 | .38 | 170 | 170 | j |
| 17 | 50 | .34 | .30 | -.84 | .32 | 1.24 | 1.7 | 1.47 | 2.0 | .34 | .10 | .38 | 32 | 32 | j |
| 16 | 49 | .33 | .29 | -.91 | .33 | 1.23 | 1.6 | 1.32 | 1.4 | .45 | .13 | .38 | 64 | 64 | j |
| 16 | 50 | .32 | .28 | -.92 | .33 | 1.15 | 1.0 | 1.50 | 2.0 | .56 | .17 | .37 | 162 | 162 | j |
| 12 | 41 | .29 | .27 | -1.02 | .37 | .94 | -.2 | .97 | .0 | 1.09 | .40 | .36 | 81 | 81 | j |
| 15 | 50 | .30 | .26 | -1.03 | .33 | 1.34 | 2.1 | 1.51 | 1.9 | .25 | -.01 | .37 | 114 | 114 | j |
| 14 | 49 | .29 | .24 | -1.15 | .34 | 1.18 | 1.1 | 1.83 | 2.7 | .47 | .08 | .36 | 73 | 73 | j |
| 14 | 50 | .28 | .24 | -1.17 | .34 | 1.30 | 1.8 | 1.46 | 1.6 | .42 | .04 | .36 | 55 | 55 | j |
| 14 | 50 | .28 | .24 | -1.17 | .34 | 1.34 | 2.0 | 1.41 | 1.5 | .37 | .02 | .36 | 68 | 68 | j |
| 13 | 50 | .26 | .22 | -1.26 | .35 | 1.28 | 1.6 | 1.70 | 2.2 | .42 | .00 | .35 | 100 | 100 | j |
| 13 | 50 | .26 | .22 | -1.28 | .35 | 1.08 | .5 | 1.06 | .2 | .87 | .27 | .35 | 19 | 19 | j |
| 13 | 50 | .26 | .22 | -1.28 | .35 | 1.07 | .4 | 1.11 | .4 | .86 | .26 | .35 | 53 | 53 | j |
| 12 | 50 | .24 | .20 | -1.38 | .35 | 1.15 | .8 | 1.29 | .9 | .73 | .16 | .34 | 175 | 175 | j |
| 12 | 50 | .24 | .20 | -1.40 | .35 | 1.32 | 1.7 | 2.28 | 3.3 | .32 | -.11 | .34 | 13 | 13 | j |
| 12 | 50 | .24 | .20 | -1.40 | .35 | 1.16 | .8 | 1.83 | 2.3 | .62 | .09 | .34 | 71 | 71 | j |
| 11 | 49 | .22 | .19 | -1.47 | .36 | 1.10 | .5 | 1.87 | 2.3 | .70 | .12 | .33 | 30 | 30 | j |
| 11 | 50 | .22 | .18 | -1.53 | .36 | 1.20 | 1.0 | 1.49 | 1.4 | .67 | .09 | .33 | 35 | 35 | j |
| 11 | 50 | .22 | .18 | -1.53 | .36 | 1.12 | .6 | 1.24 | .7 | .80 | .19 | .33 | 56 | 56 | j |
| 11 | 50 | .22 | .18 | -1.53 | .36 | 1.25 | 1.2 | 1.96 | 2.4 | .49 | -.04 | .33 | 66 | 66 | j |
| 11 | 50 | .22 | .18 | -1.53 | .36 | 1.10 | .5 | 1.90 | 2.3 | .72 | .13 | .33 | 199 | 199 | j |
| 9 | 50 | .18 | .14 | -1.79 | .39 | 1.09 | .4 | 1.39 | 1.0 | .84 | .16 | .31 | 106 | 106 | j |
| 9 | 50 | .18 | .14 | -1.81 | .39 | 1.24 | 1.0 | 1.59 | 1.4 | .67 | .01 | .31 | 11 | 11 | j |
| 9 | 50 | .18 | .14 | -1.81 | .39 | 1.09 | .4 | 1.23 | .6 | .87 | .19 | .31 | 39 | 39 | j |
| ----- | | | | | | | | | | | | | | | |
| 27.9 | 49.0 | .57 | .57 | .33 | .34 | 1.00 | .0 | 1.02 | .0 | | .38 | | Mean (Count: 229) | | |
| 8.7 | 4.4 | .17 | .19 | .89 | .04 | .13 | .9 | .27 | 1.1 | | .15 | | S.D. (Population) | | |
| 8.7 | 4.4 | .17 | .19 | .89 | .04 | .13 | .9 | .27 | 1.1 | | .15 | | S.D. (Sample) | | |
| ----- | | | | | | | | | | | | | | | |
| Model, Populn: RMSE .34 Adj (True) S.D. .82 Separation 2.41 Strata 3.55 Reliability .85 | | | | | | | | | | | | | | | |
| Model, Sample: RMSE .34 Adj (True) S.D. .82 Separation 2.42 Strata 3.56 Reliability .85 | | | | | | | | | | | | | | | |
| Model, Fixed (all same) chi-square: 1382.5 d.f.: 228 significance (probability): .00 | | | | | | | | | | | | | | | |
| Model, Random (normal) chi-square: 197.4 d.f.: 227 significance (probability): .92 | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |

Ratings of Writing Sample 1 12/8/2019 9:08:54 AM
 Table 7.2.2 Gender Measurement Report (arranged by 2N).

| Total Score | Total Count | Obsvd Average | Fair(M) Average | - Measure | Model S.E. | Infit MnSq | ZStd | Outfit MnSq | ZStd | Estim. Discrm | Correlation PtMea | PtExp | Exact Obs % | Agree. Exp % | N Gender |
|-------------|-------------|---------------|-----------------|-----------|------------|------------|------|-------------|------|---------------|-------------------|-------|-------------|--------------|-------------------|
| 4056 | 7093 | .57 | .58 | -.01 | .03 | 1.01 | .6 | 1.05 | 2.5 | .97 | .49 | .50 | .0 | .0 | 1 Male |
| 2339 | 4120 | .57 | .58 | .01 | .04 | .98 | -1.1 | .97 | -1.1 | 1.04 | .48 | .47 | .0 | .0 | 2 Female |
| 3197.5 | 5606.5 | .57 | .58 | .00 | .03 | 1.00 | -.3 | 1.01 | .7 | | .49 | | | | Mean (Count: 2) |
| 858.5 | 1486.5 | .00 | .00 | .01 | .00 | .01 | .9 | .04 | 1.8 | | .01 | | | | S.D. (Population) |
| 1214.1 | 2102.2 | .00 | .00 | .02 | .01 | .02 | 1.2 | .06 | 2.6 | | .01 | | | | S.D. (Sample) |

Model, Populn: RMSE .03 Adj (True) S.D. .00 Separation .00 Strata .33 Reliability (not inter-rater) .00
 Model, Sample: RMSE .03 Adj (True) S.D. .00 Separation .00 Strata .33 Reliability (not inter-rater) .00
 Model, Fixed (all same) chi-square: .3 d.f.: 1 significance (probability): .59
 Inter-Rater agreement opportunities: 0

Ratings of Writing Sample 1 12/8/2019 9:08:54 AM
 Table 7.3.1 Domain Measurement Report (arranged by mN).

| Total Score | Total Count | Obsvd Average | Fair(M) Average | - Measure | Model S.E. | Infit MnSq | ZStd | Outfit MnSq | ZStd | Estim. Discrm | Correlation PtMea | PtExp | N Domain |
|-------------|-------------|---------------|-----------------|-----------|------------|------------|------|-------------|------|---------------|-------------------|-------|-------------------|
| 488 | 1349 | .36 | .45 | .55 | .06 | 1.09 | 3.1 | 1.24 | 4.6 | .78 | .38 | .46 | 2 RE |
| 933 | 1793 | .52 | .55 | .12 | .05 | .96 | -2.2 | .97 | -1.1 | 1.12 | .47 | .43 | 4 STEI |
| 1023 | 1799 | .57 | .59 | -.02 | .05 | 1.00 | .1 | 1.09 | 2.5 | .97 | .45 | .46 | 3 STSC |
| 786 | 1332 | .59 | .60 | -.10 | .07 | .96 | -1.2 | .98 | -.3 | 1.06 | .54 | .52 | 6 WREI |
| 1890 | 3153 | .60 | .61 | -.13 | .04 | 1.03 | 1.4 | 1.01 | .4 | .95 | .45 | .47 | 1 RC |
| 1275 | 1787 | .71 | .68 | -.42 | .06 | .94 | -2.0 | .89 | -2.4 | 1.11 | .46 | .41 | 5 WRSC |
| 1065.8 | 1868.8 | .56 | .58 | .00 | .06 | 1.00 | -.1 | 1.03 | .6 | | .46 | | Mean (Count: 6) |
| 438.7 | 608.9 | .11 | .07 | .29 | .01 | .05 | 1.9 | .11 | 2.4 | | .04 | | S.D. (Population) |
| 480.6 | 667.1 | .12 | .08 | .32 | .01 | .06 | 2.1 | .12 | 2.6 | | .05 | | S.D. (Sample) |

Model, Populn: RMSE .06 Adj (True) S.D. .29 Separation 5.12 Strata 7.16 Reliability .96
 Model, Sample: RMSE .06 Adj (True) S.D. .32 Separation 5.63 Strata 7.84 Reliability .97
 Model, Fixed (all same) chi-square: 142.1 d.f.: 5 significance (probability): .00
 Model, Random (normal) chi-square: 4.8 d.f.: 4 significance (probability): .30