## Draft

## "ISAT 2015 to 2022 Percentiles"

Isat2022percentiles.pdf

All Students
Female Students Male Students

# Total 36 pages. 

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K-12 Research Idaho
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The Idaho Standards Achievement Test

Using ISAT Percentile Results to Describe the Impact of the Pandemic (2019-2021), Recovery Learning (2021-2022), and Long-Term Statis (2015-2022) for All Students, Female Students and Male Students in

Grades 3-8 and 10
by
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- a personal public service project for educators, students, parents, and patrons of Idaho's Public Schools

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This free document is available at https://k12researchidaho.com/pdf/isat2022percentiles.pdf

Using ISAT Percentile Results to Describe the Impact of the Pandemic (20192021), Recovery Learning (2021-2022), and Long-Term Statis (2015-2022) for All Students, Female Students and Male Students in Grades 3-8 and 10

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Learning Point Associates (2009) suggested three measures of school performance, once in widespread use, could provide program evaluation and accountability data more useful than the percentage of students rated as proficient or above. These measures were averages (means), percentiles, and effect sizes. This paper considered what we might learn about the statewide performance of Idaho students from their percentile scores from the 2015 to 2022 Idaho Standard Achievement Tests (ISAT) of English Language Arts and Mathematics.

Effect sizes of average scale scores provided much information, but they hid a lot of performance evidence in a single measure of central tendency. Percentiles provided additional evidence of performance across the distribution of student scale scores. They enabled us to look at the comparison of five performance levels from year to year, and five multi-year trends. The five percentiles (i.e., values or scale scores) used for this analysis were:


The Idaho State Department of Education (SDE) provided the ISAT statewide summary scores for 2015 to 2022, grades 3-8 and 10 utilized for the study. Data were identified for three student groups: all students, female students, and male students. For each statewide student group (i.e., year-subject-grade), the SDE provided (1) the number of students who had valid ISAT scale scores, (2) their average or mean scale score, and (3) their standard deviation.

Each of the five grade-level percentiles (p) was calculated using the SDE provided ISAT means and standard deviations and the z scores associated with each of the five percentiles:

## p = (z score $x$ standard deviation) + mean

where z-scores were retrieved from a Proportions of Area under the Normal Curve table of an undergraduate statistics textbook (Runyon and Haber, 1971).

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## Impact of Pandemic: 2019 to 2021 ISAT English Language Arts

Table 1. ISAT English Language Arts - All Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -2 | -1 | 4 | -4 | 1 | 11 | 6 | 15 |
| HI AVG | -4 | -3 | 1 | -5 | 1 | 7 | 4 | 1 |
| AVG | -7 | -4 | -3 | -6 | -1 | 3 | 1 | -17 |
| LO AVG | -10 | -5 | -6 | -7 | -1 | 1 | 0 | -28 |
| LOW | -13 | -6 | -9 | -8 | -1 | -4 | -2 | -43 |
| Total | -36 | -19 | -13 | -30 | -1 | 18 | 9 | -72 |

Table 2. ISAT English Language Arts - Female Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -2 | -1 | 5 | -2 | 0 | 8 | 10 | 18 |
| HI AVG | -5 | -3 | 1 | -5 | -2 | 5 | 7 | -2 |
| AVG | -8 | -5 | -2 | -7 | -3 | 2 | 4 | -19 |
| LO AVG | -11 | -6 | -6 | -8 | -3 | 0 | 3 | -31 |
| LOW | -14 | -9 | -10 | -11 | -5 | -3 | 0 | -52 |
| Total | -40 | -24 | -12 | -33 | -13 | 12 | 24 | -86 |

Table 3. ISAT English Language Arts - Male Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -1 | -3 | 3 | -5 | 4 | 14 | 2 | 14 |
| HI AVG | -4 | -3 | 0 | -6 | 2 | 9 | 0 | -2 |
| AVG | -6 | -4 | -3 | -5 | 2 | 5 | 0 | -11 |
| LO AVG | -8 | -4 | -5 | -6 | 2 | 0 | -2 | -23 |
| LOW | -11 | -4 | -8 | -6 | 1 | -5 | -3 | -36 |
| Total | -30 | -18 | -13 | -28 | 11 | 23 | -3 | -58 |

## Recovery Year: 2021 to 2022 ISAT English Language Arts

Table 4. ISAT English Language Arts - All Students
Recovery Year (2021 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 9 | 8 | 7 | 10 | 6 | -2 | 9 | 47 |
| HI AVG | 7 | 6 | 5 | 6 | 4 | -3 | 7 | 32 |
| AVG | 4 | 5 | 4 | 3 | 3 | -3 | 5 | 21 |
| LO AVG | 2 | 4 | 2 | -1 | 0 | -5 | 1 | 3 |
| LOW | 0 | 2 | 0 | -5 | -2 | -4 | -1 | -10 |
| Total | 22 | 25 | 18 | 13 | 11 | -17 | 21 | 93 |

Table 5. ISAT English Language Arts - Female Students
Recovery Year (2021 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 10 | 7 | 5 | 5 | 6 | -5 | 7 | 35 |
| HI AVG | 7 | 5 | 4 | 4 | 5 | -5 | 5 | 25 |
| AVG | 4 | 4 | 3 | 2 | 3 | -4 | 4 | 16 |
| LO AVG | 2 | 3 | 2 | 0 | 2 | -4 | 2 | 7 |
| LOW | 0 | 2 | 0 | -1 | 1 | -3 | 0 | -1 |
| Total | 23 | 21 | 14 | 10 | 17 | -21 | 18 | 82 |

Table 6. ISAT English Language Arts - Male Students
Recovery Year (2021 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 7 | 10 | 8 | 6 | 7 | -3 | 10 | 45 |
| HI AVG | 6 | 9 | 6 | 5 | 5 | -3 | 8 | 36 |
| AVG | 4 | 7 | 4 | 3 | 2 | -3 | 4 | 21 |
| LO AVG | 2 | 5 | 2 | 1 | -1 | -4 | 1 | 6 |
| LOW | 0 | 3 | 0 | -1 | -3 | -4 | -3 | -8 |
| Total | 19 | 34 | 20 | 14 | 10 | -17 | 20 | 100 |

## Long-Term Status: 2015 to 2022 <br> ISAT English Language Arts

Table 7. ISAT English Language Arts - All Students
Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 21 | 28 | 33 | 31 | 33 | 23 | 22 | 191 |
| HI AVG | 11 | 20 | 23 | 20 | 25 | 14 | 12 | 125 |
| AVG | 0 | 12 | 12 | 9 | 17 | 5 | 2 | 57 |
| LO AVG | -11 | 4 | 1 | -2 | 8 | -5 | -9 | -14 |
| LOW | -21 | -4 | -9 | -13 | 0 | -13 | -19 | -79 |
| Total | 0 | 60 | 60 | 45 | 83 | 24 | 8 | 280 |

Table 8. ISAT English Language Arts - Female Students Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 19 | 25 | 29 | 26 | 30 | 19 | 21 | 169 |
| HI AVG | 9 | 17 | 19 | 18 | 23 | 11 | 11 | 108 |
| AVG | -2 | 8 | 9 | 9 | 16 | 5 | 2 | 47 |
| LO AVG | -12 | 0 | -1 | 0 | 9 | -3 | -8 | -15 |
| LOW | -22 | -8 | -12 | -8 | 2 | -9 | -17 | -74 |
| Total | -8 | 42 | 44 | 45 | 80 | 23 | 9 | 235 |

Table 9. ISAT English Language Arts - Male Students Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 23 | 31 | 37 | 26 | 37 | 24 | 23 | 201 |
| HI AVG | 13 | 24 | 26 | 18 | 27 | 14 | 13 | 135 |
| AVG | 2 | 15 | 14 | 9 | 17 | 4 | 1 | 62 |
| LO AVG | -9 | 7 | 2 | -1 | 7 | -6 | -10 | -10 |
| LOW | -20 | -1 | -9 | -10 | -2 | -16 | -22 | -80 |
| Total | 9 | 76 | 70 | 42 | 86 | 20 | 5 | 308 |

## Impact of Pandemic: 2019 to 2021 ISAT Mathematics

Table 10. ISAT Mathematics - All Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -6 | -4 | -7 | -12 | -10 | -11 | 5 | -45 |
| HI AVG | -10 | -8 | -10 | -14 | -14 | -13 | -1 | -70 |
| AVG | -12 | -12 | -12 | -15 | -16 | -15 | -5 | -87 |
| LO AVG | -15 | -16 | -13 | -17 | -19 | -16 | -10 | -106 |
| LOW | -19 | -20 | -16 | -19 | -22 | -18 | -16 | -130 |
| Total | -62 | -60 | -58 | -77 | -81 | -73 | -27 | -438 |

Table 11. ISAT Mathematics - Female Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -9 | -3 | -15 | -14 | -13 | -12 | 2 | -64 |
| HI AVG | -11 | -8 | -14 | -17 | -17 | -16 | -2 | -85 |
| AVG | -14 | -13 | -13 | -20 | -21 | -19 | -7 | -107 |
| LO AVG | -16 | -18 | -10 | -23 | -24 | -21 | -10 | -122 |
| LOW | -20 | -24 | -9 | -26 | -29 | -25 | -15 | -148 |
| Total | -70 | -66 | -61 | -100 | -104 | -93 | -32 | -526 |

Table12. ISAT Mathematics - Male Students
Pandemic Impact (2019 to 2021): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | -5 | -4 | -7 | -9 | -7 | -8 | 6 | -34 |
| HI AVG | -8 | -7 | -9 | -9 | -10 | -10 | 0 | -53 |
| AVG | -11 | -11 | -11 | -10 | -11 | -10 | -5 | -69 |
| LO AVG | -14 | -14 | -13 | -11 | -13 | -10 | -10 | -85 |
| LOW | -17 | -17 | -15 | -13 | -15 | -12 | -16 | -105 |
| Total | -55 | -53 | -55 | -52 | -56 | -50 | -25 | -346 |

## Recovery Year: 2021 to 2022

## ISAT Mathematics

Table 13. ISAT Mathematics - All Students
Recovery Year (2021 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 10 | 8 | 6 | 13 | 3 | 0 | 1 | 41 |
| HI AVG | 8 | 8 | 5 | 11 | 4 | 0 | 1 | 37 |
| AVG | 7 | 7 | 4 | 9 | 5 | 1 | -2 | 31 |
| LO AVG | 5 | 7 | 3 | 7 | 5 | 1 | -4 | 24 |
| LOW | 4 | 6 | 2 | 4 | 5 | 1 | -5 | 17 |
| Total | 34 | 36 | 20 | 44 | 22 | 3 | -9 | 150 |

Table 14. ISAT Mathematics - Female Students
Recovery Year (2021 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 12 | 6 | 14 | 13 | 2 | -1 | 1 | 47 |
| HI AVG | 9 | 6 | 9 | 10 | 3 | -1 | -1 | 35 |
| AVG | 7 | 6 | 4 | 8 | 4 | -1 | -4 | 24 |
| LO AVG | 4 | 6 | -1 | 6 | 6 | -1 | -7 | 13 |
| LOW | 3 | 7 | -6 | 3 | 7 | -1 | -9 | 4 |
| Total | 35 | 31 | 20 | 40 | 22 | -5 | -20 | 123 |

Table 15. ISAT Mathematics - Male Students
Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 22 | 29 | 25 | 28 | 26 | 16 | 39 | 185 |
| HI AVG | 13 | 20 | 16 | 19 | 17 | 8 | 22 | 115 |
| AVG | 5 | 10 | 6 | 9 | 8 | 0 | 5 | 43 |
| LO AVG | -5 | 1 | -3 | 0 | -1 | -7 | -13 | -28 |
| LOW | -14 | -8 | -13 | -9 | -10 | -16 | -29 | -99 |
| Total | 21 | 52 | 31 | 47 | 40 | 1 | 24 | 216 |

## Long-Term Status: 2015 to 2022 ISAT Mathematics

Table 16. ISAT Mathematics - All Students
Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 21 | 25 | 23 | 24 | 22 | 12 | 29 | 156 |
| HI AVG | 11 | 16 | 14 | 15 | 12 | 4 | 15 | 87 |
| AVG | 2 | 6 | 4 | 4 | 3 | -4 | 0 | 15 |
| LO AVG | -8 | -2 | -5 | -6 | -6 | -13 | -16 | -56 |
| LOW | -17 | -12 | -15 | -16 | -16 | -21 | -31 | -128 |
| Total | 9 | 33 | 21 | 21 | 15 | -22 | -3 | 74 |

Table 17. ISAT Mathematics - Female Students
Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 19 | 20 | 21 | 21 | 16 | 10 | 20 | 127 |
| HI AVG | 8 | 11 | 12 | 10 | 7 | 0 | 8 | 56 |
| AVG | -1 | 3 | 2 | 0 | -3 | -9 | -6 | -14 |
| LO AVG | -11 | -6 | -7 | -12 | -12 | -18 | -19 | -85 |
| LOW | -21 | -14 | -17 | -23 | -22 | -27 | -32 | -156 |
| Total | -6 | 14 | 11 | -4 | -14 | -44 | -29 | -72 |

Table 18. ISAT Mathematics - Male Students Long-Term Status (2015 to 2022): Scale Score Gains/Losses

| Level | Grade 3 | Grade 4 | Grade 5 | Grade 6 | Grade 7 | Grade 8 | Grade 10 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HIGH | 22 | 29 | 25 | 28 | 26 | 16 | 39 | 185 |
| HI AVG | 13 | 20 | 16 | 19 | 17 | 8 | 22 | 115 |
| AVG | 5 | 10 | 6 | 9 | 8 | 0 | 5 | 43 |
| LO AVG | -5 | 1 | -3 | 0 | -1 | -7 | -13 | -28 |
| LOW | -14 | -8 | -13 | -9 | -10 | -16 | -29 | -99 |
| Total | 21 | 52 | 31 | 47 | 40 | 1 | 24 | 216 |

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Figure 1. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 3

ISAT English/LA, 2015-2022, Grade 3
Idaho Percentiles - All Students


- 90th
- 75th
-     - 0 - $25 t h$
$-\square$ 10th

ISAT Mathematics, 2015-2022, Grade 3
Idaho Percentiles - All Students


Figure 2. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 4

ISAT English/LA, 2015-2022, Grade 4 Idaho Percentiles - All Students


SAT Mathematics, 2015-2022, Grade 4 Idaho Percentiles - All Students


Figure 3. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 5

ISAT English/LA, 2015-2022, Grade 5
Idaho Percentiles - All Students


- 90th
$-\quad$ 75th
-     - $50 t h$
$-\quad-25 t h$
$-\quad$ 10th

ISAT Mathematics, 2015-2022, Grade 5
Idaho Percentiles - All Students


Figure 4. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 6

ISAT English/LA, 2015-2022, Grade 6 Idaho Percentiles - All Students


ISAT Mathematics, 2015-2022, Grade 6 Idaho Percentiles - All Students


Figure 5. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 7

ISAT English/LA, 2015-2022, Grade 7
Idaho Percentiles - All Students


ISAT Mathematics, 2015-2022, Grade 7
Idaho Percentiles - All Students


Figure 6. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 8

ISAT English/LA, 2015-2022, Grade 8 Idaho Percentiles - All Students


-     - 90th
- 75th
-. 50th
-O-25th
$\rightarrow$ 10th

ISAT Mathematics, 2015-2022, Grade 8 Idaho Percentiles - All Students


Figure 7. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for All Students, Grade 10

ISAT English/LA, 2015-2022, Grade 10 Idaho Percentiles - All Students


ISAT Mathematics, 2015-2022, Grade 10 Idaho Percentiles - All Students


Figure 8. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 3

ISAT English/LA, 2015-2022, Grade 3 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 3 Idaho Percentiles - Female Students


Figure 9. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 4

ISAT English/LA, 2015-2022, Grade 4 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 4 Idaho Percentiles - Female Students


Figure 10. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 5

ISAT English/LA, 2015-2022, Grade 5 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 5 Idaho Percentiles - Female Students


Figure 11. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 6

ISAT English/LA, 2015-2022, Grade 6 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 6 Idaho Percentiles - Female Students


Figure 12. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 7

ISAT English/LA, 2015-2022, Grade 7 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 7 Idaho Percentiles - Female Students


Figure 13. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 8

ISAT English/LA, 2015-2022, Grade 8 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 8 Idaho Percentiles - Female Students


Figure 14. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Female Students, Grade 10

ISAT English/LA, 2015-2022, Grade 10 Idaho Percentiles - Female Students


ISAT Mathematics, 2015-2022, Grade 10 Idaho Percentiles - Female Students


Figure 15. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 3

ISAT English/LA, 2015-2022, Grade 3 Idaho Percentiles - Male Students


ISAT Mathematics, 2015-2022, Grade 3
Idaho Percentiles - Male Students


Figure 16. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 4

ISAT English/LA, 2015-2022, Grade 4 Idaho Percentiles - Male Students


ISAT Mathematics, 2015-2022, Grade 4 Idaho Percentiles - Male Students


Figure 17. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 5

ISAT English/LA, 2015-2022, Grade 5 Idaho Percentiles - Male Students


ISAT Mathematics, 2015-2022, Grade 5 Idaho Percentiles - Male Students


Figure 18. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 6

ISAT English/LA, 2015-2022, Grade 6 Idaho Percentiles - Male Students



| 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

-n. 90th - 75th $-50 t h$

-     - $-25 t h$ $\rightarrow$ 10th

ISAT Mathematics, 2015-2022, Grade 6 Idaho Percentiles - Male Students


Figure 19. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 7

ISAT English/LA, 2015-2022, Grade 7
Idaho Percentiles - Male Students


- 90th
- 75th
-     - 0 - $25 t h$
$-\square 10 t h$

ISAT Mathematics, 2015-2022, Grade 7 Idaho Percentiles - Male Students


Figure 20. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 8

ISAT English/LA, 2015-2022, Grade 8 Idaho Percentiles - Male Students


ISAT Mathematics, 2015-2022, Grade 8 Idaho Percentiles - Male Students


Figure 21. ISAT 2015-2022: English Language Arts and Mathematics Percentiles for Male Students, Grade 10

ISAT English/LA, 2015-2022, Grade 10
Idaho Percentiles - Male Students


ISAT Mathematics, 2015-2022, Grade 10 Idaho Percentiles - Male Students


Runyon, R.P. and Haber, A. (1971). Fundamentals of Behavioral Statistics (2nd Ed.). Reading, MA: Addison-Wesley Publishing Company.

