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**ISASP**

**IOWA STATEWIDE ASSESSMENT  
of STUDENT PROGRESS**

**Iowa Percentile Ranks for 2024**

Prepared By  
**Iowa Testing Programs**

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# Iowa Statewide Assessment of Student Progress

## Iowa Percentile Ranks for 2024

The Iowa Statewide Assessment of Student Progress (ISASP) measures student achievement and understanding of the Iowa Core Standards in English Language Arts (ELA), Mathematics, and Science. Indicators of student proficiency and growth from grade-to-grade are provided. ISASP assesses English Language Arts and Mathematics for students in grades 3–11 and Science in grades 5, 8, and 10. The assessments, offered in both paper-and-pencil and computer-based formats during the last quarter of the academic year, include multiple-choice and technology-enhanced items, constructed response items, and open-ended essay questions aligned to the Iowa Core Standards.

Understanding how students change and grow over time is extremely important as teachers and schools design education programs tied to standards in English Language Arts, Mathematics, and Science. Student achievement and growth can be characterized in a variety of ways, including proficiency, growth scores, and status relative to a goal such as college readiness or to a similar group of students. Three different types of metrics are available to help interpret ISASP results. A *proficiency-based reference* provides students and educators with descriptions and indicators of levels of proficiency as determined by the state of Iowa with designations of Not-Yet-Proficient, Proficient, and Advanced. Proficiency-based scores are criterion-referenced and reflect the level of achievement compared to the Iowa Core standards. A *growth reference* provides a metric for examining the change between two or more administrations of an assessment such as the difference between ISASP Scale Scores from one year to the next. A *normative-based reference* is provided through the state of Iowa percentile ranks that are available after each administration and specific to the particular year of the assessment program.

The Iowa Statewide Assessment of Student Progress (ISASP) was introduced in the spring of 2019, followed by its second administration in the spring of 2021. Since then, it has been consistently administered every spring on an annual basis. In this document, you will find the Iowa Percentile Ranks (IPRs) for the year 2024. Grade-specific percentile ranks were determined using results from the 2022, 2023, and 2024 administrations of the assessment. Including multiple years of data reduces potential cohort effects in the percentile ranks. This document is intended to complement interpretative information from proficiency-based and growth references. Similar information for previous administrations can be found at: <https://iowa.pearsonaccess.com/reporting-resources/>.

## Using the Results

These conversion tables can be used by educators to find the percentile rank associated with Scale Scores on the ISASP assessments. The conversion tables are organized by grade, and each grade-level table includes columns containing the IPR of each ISASP Scale Score. The Scale Score to Percentile Rank conversions were obtained directly from the statewide distributions of ISASP Scale Scores from the last three administrations. In each test area and grade, these tables were developed from the final scoring file created for the purpose of reporting scores to Iowa schools. To use the tables, locate the grade-level of the student. Then find the student's ISASP Scale Score in the column labeled Scale Score. The Scale Scores are ordered from high to low in each grade.

It is important to recognize that the ISASP was developed to align with the Iowa Core Standards and provide standards-based information for students and their families, for Iowa schools and the Iowa Department of Education's School Performance Profiles. The Iowa Percentile Ranks presented in this document do not play a direct role in any statewide accountability use of assessment results. They are intended to support other administrative uses of ISASP scores in Iowa schools.

**Table 1: Grade 3 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
510	99	99	99	99	510
509	99	99	99	99	509
508	99	99	99	99	508
507	99	99	99	99	507
506	99	99	99	99	506
505	99	99	99	99	505
504	99	99	99	99	504
503	99	99	99	99	503
502	99	99	99	99	502
501	99	99	99	99	501
500	99	99	99	99	500
499	99	99	99	99	499
498	99	99	99	99	498
497	99	99	99	99	497
496	99	99	99	99	496
495	99	99	99	99	495
494	99	99	99	99	494
493	99	99	99	99	493
492	99	99	99	99	492
491	99	99	99	99	491
490	99	99	99	99	490
489	99	99	99	99	489
488	99	99	99	99	488
487	99	99	99	99	487
486	99	99	99	99	486
485	99	99	99	99	485
484	99	99	99	99	484
483	99	99	99	99	483
482	99	99	99	98	482
481	99	99	99	98	481
480	99	99	99	98	480
479	99	99	99	98	479
478	99	99	99	98	478
477	99	99	99	98	477
476	99	99	99	98	476
475	99	99	99	98	475
474	99	99	99	97	474
473	99	99	99	97	473
472	98	98	99	97	472
471	98	98	99	97	471
470	98	98	99	96	470
469	98	98	99	96	469
468	98	97	98	96	468
467	97	97	98	96	467
466	97	97	98	95	466

**Table 1: Grade 3 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
465	97	97	98	95	465
464	97	96	98	94	464
463	97	96	98	94	463
462	96	96	97	94	462
461	96	95	97	93	461
460	96	95	97	93	460
459	96	94	96	93	459
458	95	94	96	92	458
457	95	93	96	91	457
456	95	93	95	91	456
455	95	92	95	90	455
454	94	92	95	90	454
453	94	91	94	89	453
452	94	90	94	89	452
451	94	90	93	88	451
450	93	89	93	87	450
449	93	88	92	87	449
448	92	87	91	86	448
447	92	86	91	85	447
446	91	85	90	85	446
445	91	85	89	84	445
444	90	84	88	83	444
443	90	83	88	82	443
442	89	82	87	82	442
441	88	81	86	81	441
440	88	80	85	80	440
439	88	79	84	79	439
438	87	78	83	79	438
437	86	77	82	78	437
436	85	76	81	77	436
435	84	75	80	76	435
434	83	73	79	75	434
433	82	72	78	74	433
432	80	71	77	73	432
431	79	70	75	73	431
430	78	69	74	72	430
429	77	68	73	71	429
428	76	67	72	70	428
427	74	66	71	69	427
426	73	65	70	68	426
425	72	64	68	67	425
424	71	62	67	66	424
423	69	61	66	65	423
422	67	60	65	64	422
421	66	59	63	63	421

**Table 1: Grade 3 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>420</b>	65	58	62	62	<b>420</b>
<b>419</b>	64	57	61	61	<b>419</b>
<b>418</b>	63	56	59	60	<b>418</b>
<b>417</b>	63	55	58	59	<b>417</b>
<b>416</b>	62	53	57	58	<b>416</b>
<b>415</b>	62	52	56	56	<b>415</b>
<b>414</b>	61	51	55	55	<b>414</b>
<b>413</b>	59	49	53	54	<b>413</b>
<b>412</b>	58	48	52	53	<b>412</b>
<b>411</b>	56	47	51	52	<b>411</b>
<b>410</b>	55	46	50	51	<b>410</b>
<b>409</b>	54	45	49	50	<b>409</b>
<b>408</b>	52	44	47	48	<b>408</b>
<b>407</b>	50	43	46	47	<b>407</b>
<b>406</b>	48	42	45	46	<b>406</b>
<b>405</b>	47	40	43	45	<b>405</b>
<b>404</b>	46	39	42	44	<b>404</b>
<b>403</b>	45	38	41	43	<b>403</b>
<b>402</b>	44	37	40	42	<b>402</b>
<b>401</b>	43	36	39	40	<b>401</b>
<b>400</b>	43	35	38	39	<b>400</b>
<b>399</b>	42	34	37	38	<b>399</b>
<b>398</b>	41	33	35	37	<b>398</b>
<b>397</b>	40	32	34	36	<b>397</b>
<b>396</b>	39	31	33	35	<b>396</b>
<b>395</b>	37	30	32	34	<b>395</b>
<b>394</b>	36	29	31	32	<b>394</b>
<b>393</b>	35	28	30	31	<b>393</b>
<b>392</b>	34	27	29	30	<b>392</b>
<b>391</b>	33	26	28	29	<b>391</b>
<b>390</b>	31	25	27	27	<b>390</b>
<b>389</b>	30	24	26	26	<b>389</b>
<b>388</b>	29	23	25	25	<b>388</b>
<b>387</b>	28	22	24	24	<b>387</b>
<b>386</b>	27	21	23	22	<b>386</b>
<b>385</b>	27	21	22	21	<b>385</b>
<b>384</b>	25	20	21	20	<b>384</b>
<b>383</b>	23	19	19	19	<b>383</b>
<b>382</b>	21	18	18	18	<b>382</b>
<b>381</b>	20	17	17	17	<b>381</b>
<b>380</b>	19	16	17	16	<b>380</b>
<b>379</b>	19	15	16	15	<b>379</b>
<b>378</b>	18	15	15	14	<b>378</b>
<b>377</b>	17	14	14	13	<b>377</b>
<b>376</b>	16	13	13	12	<b>376</b>

**Table 1: Grade 3 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
375	16	12	13	11	375
374	15	12	12	10	374
373	13	11	11	9	373
372	12	11	10	8	372
371	11	10	9	7	371
370	10	10	8	6	370
369	10	9	8	5	369
368	9	8	7	4	368
367	9	8	6	4	367
366	9	7	6	3	366
365	8	7	5	3	365
364	7	6	4	2	364
363	6	6	4	2	363
362	4	6	3	1	362
361	4	5	3	1	361
360	3	5	2	1	360
359	3	5	2	1	359
358	2	4	2	1	358
357	1	4	1	1	357
356	1	3	1	1	356
355	1	3	1	1	355
354	1	3	1	1	354
353	1	2	1	1	353
352	1	2	1	1	352
351	1	1	1	1	351
350	1	1	1	1	350
349	1	1	1	1	349
348	1	1	1	1	348
347	1	1	1	1	347
346	1	1	1	1	346
345	1	1	1	1	345



**Table 2: Grade 4 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>540</b>	99	99	99	99	<b>540</b>
<b>539</b>	99	99	99	99	<b>539</b>
<b>538</b>	99	99	99	99	<b>538</b>
<b>537</b>	99	99	99	99	<b>537</b>
<b>536</b>	99	99	99	99	<b>536</b>
<b>535</b>	99	99	99	99	<b>535</b>
<b>534</b>	99	99	99	99	<b>534</b>
<b>533</b>	99	99	99	99	<b>533</b>
<b>532</b>	99	99	99	99	<b>532</b>
<b>531</b>	99	99	99	99	<b>531</b>
<b>530</b>	99	99	99	99	<b>530</b>
<b>529</b>	99	99	99	99	<b>529</b>
<b>528</b>	99	99	99	99	<b>528</b>
<b>527</b>	99	99	99	99	<b>527</b>
<b>526</b>	99	99	99	99	<b>526</b>
<b>525</b>	99	99	99	99	<b>525</b>
<b>524</b>	99	99	99	99	<b>524</b>
<b>523</b>	99	99	99	99	<b>523</b>
<b>522</b>	99	99	99	99	<b>522</b>
<b>521</b>	99	99	99	99	<b>521</b>
<b>520</b>	99	99	99	99	<b>520</b>
<b>519</b>	99	99	99	99	<b>519</b>
<b>518</b>	99	99	99	99	<b>518</b>
<b>517</b>	99	99	99	98	<b>517</b>
<b>516</b>	99	99	99	98	<b>516</b>
<b>515</b>	99	99	99	98	<b>515</b>
<b>514</b>	99	99	99	98	<b>514</b>
<b>513</b>	99	99	99	98	<b>513</b>
<b>512</b>	99	99	99	98	<b>512</b>
<b>511</b>	99	99	99	98	<b>511</b>
<b>510</b>	99	98	99	98	<b>510</b>
<b>509</b>	99	98	99	97	<b>509</b>
<b>508</b>	98	98	99	97	<b>508</b>
<b>507</b>	98	98	99	97	<b>507</b>
<b>506</b>	98	98	99	97	<b>506</b>
<b>505</b>	98	98	99	97	<b>505</b>
<b>504</b>	98	97	99	96	<b>504</b>
<b>503</b>	98	97	99	96	<b>503</b>
<b>502</b>	98	97	98	96	<b>502</b>
<b>501</b>	97	97	98	96	<b>501</b>
<b>500</b>	97	96	98	95	<b>500</b>
<b>499</b>	97	96	98	95	<b>499</b>
<b>498</b>	97	96	98	95	<b>498</b>
<b>497</b>	96	96	97	95	<b>497</b>
<b>496</b>	96	95	97	94	<b>496</b>

**Table 2: Grade 4 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>495</b>	96	95	97	94	<b>495</b>
<b>494</b>	95	95	97	93	<b>494</b>
<b>493</b>	95	94	96	93	<b>493</b>
<b>492</b>	95	94	96	93	<b>492</b>
<b>491</b>	94	93	95	92	<b>491</b>
<b>490</b>	94	93	95	92	<b>490</b>
<b>489</b>	94	92	95	92	<b>489</b>
<b>488</b>	94	92	94	91	<b>488</b>
<b>487</b>	93	91	94	91	<b>487</b>
<b>486</b>	93	91	93	90	<b>486</b>
<b>485</b>	93	90	93	90	<b>485</b>
<b>484</b>	92	90	93	89	<b>484</b>
<b>483</b>	92	89	92	89	<b>483</b>
<b>482</b>	92	88	91	89	<b>482</b>
<b>481</b>	91	88	91	88	<b>481</b>
<b>480</b>	90	87	90	88	<b>480</b>
<b>479</b>	89	86	90	87	<b>479</b>
<b>478</b>	89	86	89	87	<b>478</b>
<b>477</b>	88	85	88	86	<b>477</b>
<b>476</b>	88	84	87	86	<b>476</b>
<b>475</b>	87	83	87	85	<b>475</b>
<b>474</b>	87	83	86	85	<b>474</b>
<b>473</b>	86	82	86	84	<b>473</b>
<b>472</b>	85	81	85	83	<b>472</b>
<b>471</b>	84	80	84	83	<b>471</b>
<b>470</b>	83	79	83	82	<b>470</b>
<b>469</b>	83	78	82	81	<b>469</b>
<b>468</b>	82	78	81	81	<b>468</b>
<b>467</b>	81	77	80	80	<b>467</b>
<b>466</b>	80	76	79	79	<b>466</b>
<b>465</b>	79	75	78	79	<b>465</b>
<b>464</b>	78	74	77	78	<b>464</b>
<b>463</b>	77	73	76	77	<b>463</b>
<b>462</b>	77	72	75	76	<b>462</b>
<b>461</b>	77	71	74	76	<b>461</b>
<b>460</b>	76	70	73	75	<b>460</b>
<b>459</b>	76	69	72	74	<b>459</b>
<b>458</b>	75	68	71	73	<b>458</b>
<b>457</b>	73	67	70	73	<b>457</b>
<b>456</b>	72	66	69	72	<b>456</b>
<b>455</b>	71	65	68	71	<b>455</b>
<b>454</b>	70	64	67	70	<b>454</b>
<b>453</b>	68	63	66	69	<b>453</b>
<b>452</b>	66	61	65	69	<b>452</b>
<b>451</b>	66	60	64	68	<b>451</b>

**Table 2: Grade 4 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>450</b>	65	59	62	67	<b>450</b>
<b>449</b>	64	58	61	66	<b>449</b>
<b>448</b>	63	58	60	66	<b>448</b>
<b>447</b>	62	57	59	65	<b>447</b>
<b>446</b>	61	56	58	64	<b>446</b>
<b>445</b>	60	55	57	63	<b>445</b>
<b>444</b>	59	54	56	62	<b>444</b>
<b>443</b>	58	53	55	61	<b>443</b>
<b>442</b>	57	52	54	60	<b>442</b>
<b>441</b>	56	51	52	59	<b>441</b>
<b>440</b>	55	50	52	59	<b>440</b>
<b>439</b>	54	49	51	58	<b>439</b>
<b>438</b>	53	48	49	57	<b>438</b>
<b>437</b>	51	47	48	56	<b>437</b>
<b>436</b>	50	46	47	55	<b>436</b>
<b>435</b>	49	45	46	54	<b>435</b>
<b>434</b>	47	44	45	53	<b>434</b>
<b>433</b>	47	43	44	53	<b>433</b>
<b>432</b>	46	42	43	52	<b>432</b>
<b>431</b>	45	41	42	51	<b>431</b>
<b>430</b>	44	40	41	50	<b>430</b>
<b>429</b>	43	39	40	49	<b>429</b>
<b>428</b>	42	38	39	48	<b>428</b>
<b>427</b>	42	37	38	47	<b>427</b>
<b>426</b>	41	36	37	46	<b>426</b>
<b>425</b>	40	35	36	45	<b>425</b>
<b>424</b>	40	34	36	44	<b>424</b>
<b>423</b>	39	33	35	44	<b>423</b>
<b>422</b>	39	33	34	43	<b>422</b>
<b>421</b>	37	32	33	42	<b>421</b>
<b>420</b>	35	31	32	41	<b>420</b>
<b>419</b>	34	30	31	40	<b>419</b>
<b>418</b>	33	29	30	38	<b>418</b>
<b>417</b>	32	28	29	37	<b>417</b>
<b>416</b>	31	28	29	36	<b>416</b>
<b>415</b>	31	27	28	36	<b>415</b>
<b>414</b>	30	26	27	35	<b>414</b>
<b>413</b>	30	25	26	34	<b>413</b>
<b>412</b>	29	24	25	33	<b>412</b>
<b>411</b>	29	24	25	32	<b>411</b>
<b>410</b>	28	23	24	31	<b>410</b>
<b>409</b>	27	22	23	30	<b>409</b>
<b>408</b>	26	22	23	29	<b>408</b>
<b>407</b>	25	21	22	29	<b>407</b>
<b>406</b>	25	20	21	28	<b>406</b>

**Table 2: Grade 4 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>405</b>	24	20	21	27	<b>405</b>
<b>404</b>	24	19	20	26	<b>404</b>
<b>403</b>	23	18	19	24	<b>403</b>
<b>402</b>	23	18	18	23	<b>402</b>
<b>401</b>	22	17	18	22	<b>401</b>
<b>400</b>	21	17	17	22	<b>400</b>
<b>399</b>	21	16	17	21	<b>399</b>
<b>398</b>	20	16	16	20	<b>398</b>
<b>397</b>	20	15	15	19	<b>397</b>
<b>396</b>	19	14	15	18	<b>396</b>
<b>395</b>	18	14	14	17	<b>395</b>
<b>394</b>	17	13	14	16	<b>394</b>
<b>393</b>	16	13	13	15	<b>393</b>
<b>392</b>	16	12	12	14	<b>392</b>
<b>391</b>	15	12	12	14	<b>391</b>
<b>390</b>	14	11	11	13	<b>390</b>
<b>389</b>	14	11	11	12	<b>389</b>
<b>388</b>	13	10	11	11	<b>388</b>
<b>387</b>	13	10	10	10	<b>387</b>
<b>386</b>	12	10	9	9	<b>386</b>
<b>385</b>	10	9	9	9	<b>385</b>
<b>384</b>	10	9	8	8	<b>384</b>
<b>383</b>	9	8	8	7	<b>383</b>
<b>382</b>	9	8	7	6	<b>382</b>
<b>381</b>	8	8	7	6	<b>381</b>
<b>380</b>	8	7	6	5	<b>380</b>
<b>379</b>	8	7	6	4	<b>379</b>
<b>378</b>	8	7	6	4	<b>378</b>
<b>377</b>	7	6	5	3	<b>377</b>
<b>376</b>	6	6	5	3	<b>376</b>
<b>375</b>	5	6	4	3	<b>375</b>
<b>374</b>	5	5	4	2	<b>374</b>
<b>373</b>	4	5	3	2	<b>373</b>
<b>372</b>	4	5	3	2	<b>372</b>
<b>371</b>	3	4	3	1	<b>371</b>
<b>370</b>	3	4	2	1	<b>370</b>
<b>369</b>	2	4	2	1	<b>369</b>
<b>368</b>	2	4	2	1	<b>368</b>
<b>367</b>	2	3	1	1	<b>367</b>
<b>366</b>	2	3	1	1	<b>366</b>
<b>365</b>	2	3	1	1	<b>365</b>
<b>364</b>	2	3	1	1	<b>364</b>
<b>363</b>	1	2	1	1	<b>363</b>
<b>362</b>	1	2	1	1	<b>362</b>
<b>361</b>	1	2	1	1	<b>361</b>

**Table 2: Grade 4 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>360</b>	1	2	1	1	<b>360</b>
<b>359</b>	1	2	1	1	<b>359</b>
<b>358</b>	1	1	1	1	<b>358</b>
<b>357</b>	1	1	1	1	<b>357</b>
<b>356</b>	1	1	1	1	<b>356</b>
<b>355</b>	1	1	1	1	<b>355</b>
<b>354</b>	1	1	1	1	<b>354</b>
<b>353</b>	1	1	1	1	<b>353</b>
<b>352</b>	1	1	1	1	<b>352</b>
<b>351</b>	1	1	1	1	<b>351</b>
<b>350</b>	1	1	1	1	<b>350</b>

**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
590	99	99	99	99	99	590
589	99	99	99	99	99	589
588	99	99	99	99	99	588
587	99	99	99	99	99	587
586	99	99	99	99	99	586
585	99	99	99	99	99	585
584	99	99	99	99	99	584
583	99	99	99	99	99	583
582	99	99	99	99	99	582
581	99	99	99	99	99	581
580	99	99	99	99	99	580
579	99	99	99	99	99	579
578	99	99	99	99	99	578
577	99	99	99	99	99	577
576	99	99	99	99	99	576
575	99	99	99	99	99	575
574	99	99	99	99	99	574
573	99	99	99	99	99	573
572	99	99	99	99	99	572
571	99	99	99	99	99	571
570	99	99	99	99	99	570
569	99	99	99	99	99	569
568	99	99	99	99	99	568
567	99	99	99	99	99	567
566	99	99	99	99	99	566
565	99	99	99	99	99	565
564	99	99	99	99	99	564
563	99	99	99	99	99	563
562	99	99	99	99	99	562
561	99	99	99	99	99	561
560	99	99	99	99	99	560
559	99	99	99	99	99	559
558	99	99	99	99	99	558
557	99	99	99	99	99	557
556	99	99	99	99	99	556
555	99	99	99	99	99	555
554	99	99	99	99	99	554
553	99	99	99	99	99	553
552	99	99	99	99	99	552
551	99	98	99	98	99	551
550	99	98	99	98	99	550
549	99	98	99	98	99	549
548	99	98	99	98	98	548
547	99	98	99	98	98	547
546	99	98	99	98	98	546

**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
545	99	98	99	98	98	545
544	99	98	99	98	98	544
543	99	98	99	98	98	543
542	99	97	99	97	98	542
541	99	97	99	97	98	541
540	99	97	99	97	97	540
539	99	97	99	97	97	539
538	99	97	99	97	97	538
537	99	97	98	97	97	537
536	98	96	98	96	97	536
535	98	96	98	96	97	535
534	98	96	98	96	96	534
533	98	96	98	96	96	533
532	98	96	98	96	96	532
531	97	95	97	96	96	531
530	97	95	97	95	96	530
529	97	95	97	95	96	529
528	97	95	97	95	96	528
527	96	94	97	95	95	527
526	96	94	96	94	95	526
525	96	94	96	94	95	525
524	96	94	96	94	94	524
523	96	93	96	94	94	523
522	95	93	95	93	93	522
521	94	93	95	93	93	521
520	94	92	95	93	92	520
519	93	92	94	92	92	519
518	93	92	94	92	92	518
517	92	91	94	92	91	517
516	92	91	93	92	91	516
515	91	91	93	91	91	515
514	91	90	92	91	90	514
513	90	90	92	90	90	513
512	89	89	91	90	90	512
511	89	89	91	89	89	511
510	89	89	90	89	89	510
509	89	88	90	89	88	509
508	89	88	89	88	88	508
507	89	87	89	88	87	507
506	88	87	88	88	87	506
505	87	87	88	87	86	505
504	87	86	87	87	86	504
503	86	86	87	86	86	503
502	85	85	86	86	85	502
501	84	84	85	85	85	501

**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
500	83	84	85	85	84	500
499	82	83	84	84	84	499
498	81	83	83	84	84	498
497	80	82	83	83	83	497
496	80	82	82	83	82	496
495	80	81	81	82	82	495
494	79	80	81	82	81	494
493	78	80	80	81	80	493
492	77	79	79	81	79	492
491	76	78	79	80	79	491
490	75	78	78	80	78	490
489	74	77	77	79	77	489
488	74	76	76	79	76	488
487	73	76	76	78	75	487
486	72	75	75	78	74	486
485	72	74	74	77	73	485
484	71	74	73	76	73	484
483	70	73	72	76	72	483
482	70	72	71	75	71	482
481	69	71	71	75	70	481
480	68	71	70	74	70	480
479	67	70	69	73	69	479
478	65	69	68	73	68	478
477	65	69	67	72	68	477
476	64	68	66	71	67	476
475	63	67	65	70	66	475
474	62	67	64	70	65	474
473	60	66	64	69	65	473
472	59	65	63	68	63	472
471	58	64	62	68	62	471
470	57	64	61	67	61	470
469	56	63	60	66	60	469
468	55	62	59	66	59	468
467	55	61	58	65	59	467
466	54	60	57	64	58	466
465	54	60	57	63	57	465
464	53	59	56	63	56	464
463	53	58	55	62	55	463
462	52	57	54	61	54	462
461	52	56	53	61	52	461
460	50	56	52	60	51	460
459	49	55	51	59	50	459
458	48	54	51	58	48	458
457	47	53	49	58	47	457
456	46	52	49	57	46	456



**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
455	45	51	48	56	45	455
454	44	51	47	55	44	454
453	43	50	46	54	43	453
452	43	49	45	53	42	452
451	42	48	44	52	40	451
450	42	47	43	52	39	450
449	41	46	42	51	38	449
448	40	46	41	50	37	448
447	39	45	41	49	36	447
446	37	44	40	49	35	446
445	36	43	39	48	35	445
444	35	43	38	47	34	444
443	34	42	37	46	34	443
442	33	41	36	45	33	442
441	33	41	36	44	33	441
440	32	40	35	43	32	440
439	31	39	34	42	32	439
438	31	38	33	42	31	438
437	30	37	32	41	30	437
436	30	36	32	40	29	436
435	29	36	31	39	27	435
434	29	35	30	38	26	434
433	28	34	29	37	25	433
432	28	33	28	36	25	432
431	26	32	28	35	24	431
430	25	32	27	34	22	430
429	24	31	26	33	21	429
428	22	30	25	32	20	428
427	21	29	25	31	19	427
426	21	29	24	30	18	426
425	20	28	23	29	17	425
424	20	27	23	28	16	424
423	19	26	22	27	16	423
422	18	26	21	26	15	422
421	18	25	20	25	15	421
420	17	24	20	24	14	420
419	17	24	19	24	14	419
418	16	23	18	23	13	418
417	16	22	18	22	12	417
416	15	22	17	21	11	416
415	14	21	16	20	10	415
414	13	21	16	19	10	414
413	12	20	15	18	10	413
412	11	20	15	17	9	412
411	11	19	14	16	9	411

**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
410	10	18	13	16	8	410
409	10	18	13	15	8	409
408	10	17	12	14	7	408
407	10	17	12	13	6	407
406	9	16	11	12	6	406
405	9	15	11	11	5	405
404	9	15	10	11	4	404
403	9	14	10	10	4	403
402	8	14	9	9	4	402
401	8	13	9	9	3	401
400	8	13	8	8	3	400
399	7	12	8	7	3	399
398	6	12	8	7	3	398
397	6	11	7	6	2	397
396	6	11	7	6	2	396
395	5	10	6	5	2	395
394	5	10	6	4	2	394
393	4	9	6	4	1	393
392	4	9	5	4	1	392
391	4	9	5	3	1	391
390	4	8	4	3	1	390
389	3	8	4	2	1	389
388	3	8	4	2	1	388
387	2	7	4	2	1	387
386	2	7	3	2	1	386
385	2	7	3	1	1	385
384	1	7	3	1	1	384
383	1	6	3	1	1	383
382	1	6	2	1	1	382
381	1	6	2	1	1	381
380	1	6	2	1	1	380
379	1	5	1	1	1	379
378	1	5	1	1	1	378
377	1	5	1	1	1	377
376	1	5	1	1	1	376
375	1	4	1	1	1	375
374	1	4	1	1	1	374
373	1	4	1	1	1	373
372	1	4	1	1	1	372
371	1	3	1	1	1	371
370	1	3	1	1	1	370
369	1	3	1	1	1	369
368	1	3	1	1	1	368
367	1	2	1	1	1	367
366	1	2	1	1	1	366

**Table 3: Grade 5 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
365	1	2	1	1	1	365
364	1	1	1	1	1	364
363	1	1	1	1	1	363
362	1	1	1	1	1	362
361	1	1	1	1	1	361
360	1	1	1	1	1	360
359	1	1	1	1	1	359
358	1	1	1	1	1	358
357	1	1	1	1	1	357
356	1	1	1	1	1	356
355	1	1	1	1	1	355

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>640</b>	99	99	99	99	<b>640</b>
<b>639</b>	99	99	99	99	<b>639</b>
<b>638</b>	99	99	99	99	<b>638</b>
<b>637</b>	99	99	99	99	<b>637</b>
<b>636</b>	99	99	99	99	<b>636</b>
<b>635</b>	99	99	99	99	<b>635</b>
<b>634</b>	99	99	99	99	<b>634</b>
<b>633</b>	99	99	99	99	<b>633</b>
<b>632</b>	99	99	99	99	<b>632</b>
<b>631</b>	99	99	99	99	<b>631</b>
<b>630</b>	99	99	99	99	<b>630</b>
<b>629</b>	99	99	99	99	<b>629</b>
<b>628</b>	99	99	99	99	<b>628</b>
<b>627</b>	99	99	99	99	<b>627</b>
<b>626</b>	99	99	99	99	<b>626</b>
<b>625</b>	99	99	99	99	<b>625</b>
<b>624</b>	99	99	99	99	<b>624</b>
<b>623</b>	99	99	99	99	<b>623</b>
<b>622</b>	99	99	99	99	<b>622</b>
<b>621</b>	99	99	99	99	<b>621</b>
<b>620</b>	99	99	99	99	<b>620</b>
<b>619</b>	99	99	99	99	<b>619</b>
<b>618</b>	99	99	99	99	<b>618</b>
<b>617</b>	99	99	99	99	<b>617</b>
<b>616</b>	99	99	99	99	<b>616</b>
<b>615</b>	99	99	99	99	<b>615</b>
<b>614</b>	99	99	99	99	<b>614</b>
<b>613</b>	99	99	99	99	<b>613</b>
<b>612</b>	99	99	99	99	<b>612</b>
<b>611</b>	99	99	99	99	<b>611</b>
<b>610</b>	99	99	99	99	<b>610</b>
<b>609</b>	99	99	99	99	<b>609</b>
<b>608</b>	99	99	99	99	<b>608</b>
<b>607</b>	99	99	99	99	<b>607</b>
<b>606</b>	99	99	99	99	<b>606</b>
<b>605</b>	99	99	99	99	<b>605</b>
<b>604</b>	99	99	99	99	<b>604</b>
<b>603</b>	99	99	99	99	<b>603</b>
<b>602</b>	99	99	99	99	<b>602</b>
<b>601</b>	99	99	99	99	<b>601</b>
<b>600</b>	99	99	99	99	<b>600</b>
<b>599</b>	99	99	99	99	<b>599</b>
<b>598</b>	99	99	99	99	<b>598</b>
<b>597</b>	99	99	99	99	<b>597</b>
<b>596</b>	99	99	99	99	<b>596</b>

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>595</b>	99	99	99	99	<b>595</b>
<b>594</b>	99	99	99	99	<b>594</b>
<b>593</b>	99	99	99	99	<b>593</b>
<b>592</b>	99	99	99	98	<b>592</b>
<b>591</b>	99	99	99	98	<b>591</b>
<b>590</b>	99	99	99	98	<b>590</b>
<b>589</b>	99	99	99	98	<b>589</b>
<b>588</b>	99	99	99	98	<b>588</b>
<b>587</b>	99	99	99	98	<b>587</b>
<b>586</b>	99	99	99	98	<b>586</b>
<b>585</b>	99	99	99	98	<b>585</b>
<b>584</b>	99	99	99	98	<b>584</b>
<b>583</b>	98	99	99	98	<b>583</b>
<b>582</b>	98	99	99	98	<b>582</b>
<b>581</b>	98	99	99	98	<b>581</b>
<b>580</b>	98	99	99	97	<b>580</b>
<b>579</b>	98	99	99	97	<b>579</b>
<b>578</b>	98	99	99	97	<b>578</b>
<b>577</b>	98	98	99	97	<b>577</b>
<b>576</b>	98	98	99	97	<b>576</b>
<b>575</b>	98	98	99	97	<b>575</b>
<b>574</b>	98	98	99	97	<b>574</b>
<b>573</b>	98	98	99	97	<b>573</b>
<b>572</b>	97	98	98	96	<b>572</b>
<b>571</b>	97	98	98	96	<b>571</b>
<b>570</b>	97	97	98	96	<b>570</b>
<b>569</b>	97	97	98	96	<b>569</b>
<b>568</b>	97	97	98	96	<b>568</b>
<b>567</b>	97	97	98	96	<b>567</b>
<b>566</b>	97	97	98	95	<b>566</b>
<b>565</b>	97	96	98	95	<b>565</b>
<b>564</b>	97	96	97	95	<b>564</b>
<b>563</b>	97	96	97	95	<b>563</b>
<b>562</b>	96	96	97	95	<b>562</b>
<b>561</b>	96	96	97	95	<b>561</b>
<b>560</b>	96	95	97	94	<b>560</b>
<b>559</b>	96	95	97	94	<b>559</b>
<b>558</b>	95	95	96	94	<b>558</b>
<b>557</b>	95	95	96	94	<b>557</b>
<b>556</b>	95	95	96	93	<b>556</b>
<b>555</b>	95	94	96	93	<b>555</b>
<b>554</b>	94	94	95	93	<b>554</b>
<b>553</b>	94	94	95	93	<b>553</b>
<b>552</b>	94	93	95	92	<b>552</b>
<b>551</b>	93	93	95	92	<b>551</b>

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
550	93	93	94	92	550
549	93	92	94	92	549
548	92	92	94	91	548
547	92	92	93	91	547
546	92	91	93	91	546
545	91	91	93	90	545
544	91	91	92	90	544
543	91	90	92	90	543
542	90	90	92	90	542
541	90	89	91	89	541
540	89	89	91	89	540
539	89	88	90	89	539
538	89	88	90	88	538
537	89	87	89	88	537
536	88	87	89	88	536
535	87	87	89	87	535
534	87	86	88	87	534
533	86	86	87	86	533
532	86	85	87	86	532
531	85	85	86	86	531
530	84	84	86	85	530
529	83	84	85	85	529
528	83	83	85	84	528
527	82	82	84	84	527
526	82	82	84	84	526
525	81	81	83	83	525
524	81	81	82	83	524
523	80	80	82	82	523
522	80	79	81	82	522
521	79	79	81	81	521
520	79	78	80	81	520
519	78	78	79	81	519
518	78	77	79	80	518
517	77	76	78	80	517
516	77	76	77	79	516
515	76	75	77	79	515
514	76	74	76	78	514
513	75	74	75	78	513
512	74	73	75	77	512
511	73	72	74	77	511
510	73	71	73	76	510
509	72	71	72	76	509
508	71	70	71	75	508
507	71	70	70	75	507
506	70	69	70	74	506

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>505</b>	69	68	69	73	<b>505</b>
<b>504</b>	69	67	68	73	<b>504</b>
<b>503</b>	68	67	67	72	<b>503</b>
<b>502</b>	67	66	67	72	<b>502</b>
<b>501</b>	66	65	66	71	<b>501</b>
<b>500</b>	65	64	65	70	<b>500</b>
<b>499</b>	64	63	64	70	<b>499</b>
<b>498</b>	63	63	63	69	<b>498</b>
<b>497</b>	62	62	62	68	<b>497</b>
<b>496</b>	62	61	61	68	<b>496</b>
<b>495</b>	61	60	61	67	<b>495</b>
<b>494</b>	60	60	60	66	<b>494</b>
<b>493</b>	58	59	59	66	<b>493</b>
<b>492</b>	57	58	58	65	<b>492</b>
<b>491</b>	56	57	57	65	<b>491</b>
<b>490</b>	55	56	56	64	<b>490</b>
<b>489</b>	54	56	56	63	<b>489</b>
<b>488</b>	53	55	55	63	<b>488</b>
<b>487</b>	53	54	54	62	<b>487</b>
<b>486</b>	52	53	53	61	<b>486</b>
<b>485</b>	52	52	52	60	<b>485</b>
<b>484</b>	51	52	51	59	<b>484</b>
<b>483</b>	51	51	50	59	<b>483</b>
<b>482</b>	51	50	50	58	<b>482</b>
<b>481</b>	50	49	49	57	<b>481</b>
<b>480</b>	50	49	48	56	<b>480</b>
<b>479</b>	49	48	47	56	<b>479</b>
<b>478</b>	48	47	46	55	<b>478</b>
<b>477</b>	48	46	45	54	<b>477</b>
<b>476</b>	47	45	44	54	<b>476</b>
<b>475</b>	47	44	44	53	<b>475</b>
<b>474</b>	45	44	43	52	<b>474</b>
<b>473</b>	44	43	42	51	<b>473</b>
<b>472</b>	43	42	41	50	<b>472</b>
<b>471</b>	41	41	40	49	<b>471</b>
<b>470</b>	40	41	39	48	<b>470</b>
<b>469</b>	38	40	39	48	<b>469</b>
<b>468</b>	37	39	38	47	<b>468</b>
<b>467</b>	37	38	37	46	<b>467</b>
<b>466</b>	36	38	36	45	<b>466</b>
<b>465</b>	35	37	35	44	<b>465</b>
<b>464</b>	34	36	34	44	<b>464</b>
<b>463</b>	34	35	34	43	<b>463</b>
<b>462</b>	33	35	33	42	<b>462</b>
<b>461</b>	32	34	32	42	<b>461</b>

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
460	32	33	31	41	460
459	31	32	31	40	459
458	31	32	30	39	458
457	30	31	29	38	457
456	29	30	29	38	456
455	29	30	28	37	455
454	29	29	27	36	454
453	28	29	26	35	453
452	28	28	26	34	452
451	27	27	25	33	451
450	26	27	24	33	450
449	26	26	24	32	449
448	25	25	23	31	448
447	24	24	22	30	447
446	23	24	22	29	446
445	22	23	21	29	445
444	21	23	21	28	444
443	21	22	20	27	443
442	20	22	19	26	442
441	20	21	19	26	441
440	19	21	18	25	440
439	19	20	18	24	439
438	18	20	17	23	438
437	18	19	16	23	437
436	17	19	16	22	436
435	17	18	15	21	435
434	16	17	15	20	434
433	15	17	14	19	433
432	15	17	14	18	432
431	14	16	13	18	431
430	14	16	13	17	430
429	13	15	12	16	429
428	13	15	12	16	428
427	12	14	11	15	427
426	11	14	11	14	426
425	11	13	11	14	425
424	10	13	10	13	424
423	9	13	10	13	423
422	9	12	9	12	422
421	9	12	9	11	421
420	8	11	9	11	420
419	8	11	8	10	419
418	7	11	8	10	418
417	7	10	8	9	417
416	7	10	7	8	416



**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
415	6	10	7	8	415
414	6	9	6	7	414
413	6	9	6	7	413
412	5	9	6	7	412
411	5	8	5	6	411
410	4	8	5	6	410
409	4	8	5	5	409
408	4	7	5	5	408
407	4	7	4	5	407
406	3	7	4	4	406
405	3	7	4	4	405
404	2	6	3	3	404
403	2	6	3	3	403
402	2	6	3	3	402
401	2	6	3	3	401
400	2	5	3	2	400
399	1	5	2	2	399
398	1	5	2	2	398
397	1	5	2	2	397
396	1	4	2	2	396
395	1	4	2	1	395
394	1	4	1	1	394
393	1	4	1	1	393
392	1	4	1	1	392
391	1	3	1	1	391
390	1	3	1	1	390
389	1	3	1	1	389
388	1	3	1	1	388
387	1	3	1	1	387
386	1	3	1	1	386
385	1	3	1	1	385
384	1	2	1	1	384
383	1	2	1	1	383
382	1	2	1	1	382
381	1	2	1	1	381
380	1	2	1	1	380
379	1	2	1	1	379
378	1	2	1	1	378
377	1	1	1	1	377
376	1	1	1	1	376
375	1	1	1	1	375
374	1	1	1	1	374
373	1	1	1	1	373
372	1	1	1	1	372
371	1	1	1	1	371

**Table 4: Grade 6 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>370</b>	1	1	1	1	<b>370</b>
<b>369</b>	1	1	1	1	<b>369</b>
<b>368</b>	1	1	1	1	<b>368</b>
<b>367</b>	1	1	1	1	<b>367</b>
<b>366</b>	1	1	1	1	<b>366</b>
<b>365</b>	1	1	1	1	<b>365</b>
<b>364</b>	1	1	1	1	<b>364</b>
<b>363</b>	1	1	1	1	<b>363</b>
<b>362</b>	1	1	1	1	<b>362</b>
<b>361</b>	1	1	1	1	<b>361</b>
<b>360</b>	1	1	1	1	<b>360</b>

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>680</b>	99	99	99	99	<b>680</b>
<b>679</b>	99	99	99	99	<b>679</b>
<b>678</b>	99	99	99	99	<b>678</b>
<b>677</b>	99	99	99	99	<b>677</b>
<b>676</b>	99	99	99	99	<b>676</b>
<b>675</b>	99	99	99	99	<b>675</b>
<b>674</b>	99	99	99	99	<b>674</b>
<b>673</b>	99	99	99	99	<b>673</b>
<b>672</b>	99	99	99	99	<b>672</b>
<b>671</b>	99	99	99	99	<b>671</b>
<b>670</b>	99	99	99	99	<b>670</b>
<b>669</b>	99	99	99	99	<b>669</b>
<b>668</b>	99	99	99	99	<b>668</b>
<b>667</b>	99	99	99	99	<b>667</b>
<b>666</b>	99	99	99	99	<b>666</b>
<b>665</b>	99	99	99	99	<b>665</b>
<b>664</b>	99	99	99	99	<b>664</b>
<b>663</b>	99	99	99	99	<b>663</b>
<b>662</b>	99	99	99	99	<b>662</b>
<b>661</b>	99	99	99	99	<b>661</b>
<b>660</b>	99	99	99	99	<b>660</b>
<b>659</b>	99	99	99	99	<b>659</b>
<b>658</b>	99	99	99	99	<b>658</b>
<b>657</b>	99	99	99	99	<b>657</b>
<b>656</b>	99	99	99	99	<b>656</b>
<b>655</b>	99	99	99	99	<b>655</b>
<b>654</b>	99	99	99	99	<b>654</b>
<b>653</b>	99	99	99	99	<b>653</b>
<b>652</b>	99	99	99	99	<b>652</b>
<b>651</b>	99	99	99	99	<b>651</b>
<b>650</b>	99	99	99	99	<b>650</b>
<b>649</b>	99	99	99	99	<b>649</b>
<b>648</b>	99	99	99	99	<b>648</b>
<b>647</b>	99	99	99	99	<b>647</b>
<b>646</b>	99	99	99	99	<b>646</b>
<b>645</b>	99	99	99	99	<b>645</b>
<b>644</b>	99	99	99	99	<b>644</b>
<b>643</b>	99	99	99	99	<b>643</b>
<b>642</b>	99	99	99	99	<b>642</b>
<b>641</b>	99	99	99	99	<b>641</b>
<b>640</b>	99	99	99	99	<b>640</b>
<b>639</b>	99	99	99	99	<b>639</b>
<b>638</b>	99	99	99	99	<b>638</b>
<b>637</b>	99	99	99	99	<b>637</b>
<b>636</b>	99	99	99	99	<b>636</b>

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>635</b>	99	99	99	99	<b>635</b>
<b>634</b>	99	99	99	99	<b>634</b>
<b>633</b>	98	99	99	99	<b>633</b>
<b>632</b>	98	99	99	99	<b>632</b>
<b>631</b>	98	99	99	99	<b>631</b>
<b>630</b>	98	99	99	99	<b>630</b>
<b>629</b>	98	99	99	99	<b>629</b>
<b>628</b>	98	99	99	99	<b>628</b>
<b>627</b>	98	99	99	98	<b>627</b>
<b>626</b>	98	99	99	98	<b>626</b>
<b>625</b>	98	99	99	98	<b>625</b>
<b>624</b>	98	99	99	98	<b>624</b>
<b>623</b>	98	99	99	98	<b>623</b>
<b>622</b>	98	98	99	98	<b>622</b>
<b>621</b>	98	98	99	98	<b>621</b>
<b>620</b>	98	98	99	98	<b>620</b>
<b>619</b>	98	98	99	98	<b>619</b>
<b>618</b>	98	98	99	98	<b>618</b>
<b>617</b>	98	98	99	98	<b>617</b>
<b>616</b>	98	98	99	98	<b>616</b>
<b>615</b>	97	98	98	97	<b>615</b>
<b>614</b>	97	98	98	97	<b>614</b>
<b>613</b>	97	98	98	97	<b>613</b>
<b>612</b>	97	98	98	97	<b>612</b>
<b>611</b>	97	97	98	97	<b>611</b>
<b>610</b>	97	97	98	97	<b>610</b>
<b>609</b>	97	97	98	97	<b>609</b>
<b>608</b>	97	97	98	97	<b>608</b>
<b>607</b>	97	97	98	97	<b>607</b>
<b>606</b>	97	97	98	96	<b>606</b>
<b>605</b>	97	97	97	96	<b>605</b>
<b>604</b>	97	97	97	96	<b>604</b>
<b>603</b>	96	96	97	96	<b>603</b>
<b>602</b>	96	96	97	96	<b>602</b>
<b>601</b>	96	96	97	96	<b>601</b>
<b>600</b>	96	96	97	96	<b>600</b>
<b>599</b>	96	96	97	95	<b>599</b>
<b>598</b>	96	96	97	95	<b>598</b>
<b>597</b>	96	96	96	95	<b>597</b>
<b>596</b>	96	95	96	95	<b>596</b>
<b>595</b>	95	95	96	95	<b>595</b>
<b>594</b>	95	95	96	95	<b>594</b>
<b>593</b>	95	95	96	94	<b>593</b>
<b>592</b>	95	95	96	94	<b>592</b>
<b>591</b>	95	94	95	94	<b>591</b>

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
590	94	94	95	94	590
589	94	94	95	94	589
588	94	94	95	93	588
587	93	93	95	93	587
586	93	93	94	93	586
585	93	93	94	93	585
584	93	92	94	93	584
583	93	92	94	92	583
582	93	92	93	92	582
581	92	91	93	92	581
580	92	91	93	92	580
579	92	91	92	92	579
578	92	90	92	91	578
577	92	90	92	91	577
576	92	89	91	91	576
575	92	89	91	91	575
574	91	89	91	91	574
573	90	88	90	90	573
572	90	88	90	90	572
571	90	87	90	90	571
570	89	87	89	89	570
569	89	86	89	89	569
568	89	86	88	89	568
567	88	86	88	88	567
566	88	85	88	88	566
565	87	85	87	88	565
564	87	84	87	87	564
563	86	84	86	87	563
562	86	83	86	87	562
561	85	83	85	87	561
560	85	82	85	86	560
559	85	82	84	86	559
558	85	81	84	86	558
557	85	81	83	85	557
556	84	80	83	85	556
555	84	80	82	85	555
554	83	79	82	84	554
553	82	79	81	84	553
552	82	78	81	84	552
551	81	77	80	83	551
550	81	77	79	83	550
549	80	76	79	82	549
548	80	76	78	82	548
547	79	75	78	82	547
546	79	74	77	81	546

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
545	78	74	76	81	545
544	78	73	76	81	544
543	77	72	75	80	543
542	77	72	74	80	542
541	76	71	74	79	541
540	75	70	73	79	540
539	75	70	72	79	539
538	74	69	72	78	538
537	73	68	71	78	537
536	71	68	70	77	536
535	70	67	70	77	535
534	69	66	69	76	534
533	68	66	68	76	533
532	68	65	67	75	532
531	67	64	67	75	531
530	66	64	66	74	530
529	65	63	65	74	529
528	65	62	64	73	528
527	64	62	64	73	527
526	62	61	63	72	526
525	61	60	62	72	525
524	60	60	61	71	524
523	60	59	61	71	523
522	59	58	60	70	522
521	59	57	59	70	521
520	59	57	58	69	520
519	58	56	57	69	519
518	58	55	57	68	518
517	58	55	56	68	517
516	57	54	55	67	516
515	57	53	54	67	515
514	56	52	53	66	514
513	55	52	53	65	513
512	55	51	52	65	512
511	54	50	51	64	511
510	52	50	50	63	510
509	51	49	50	63	509
508	50	48	49	62	508
507	49	48	48	62	507
506	48	47	47	61	506
505	48	46	46	61	505
504	47	46	46	60	504
503	46	45	45	59	503
502	46	44	44	58	502
501	45	43	43	58	501

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>500</b>	44	43	43	57	<b>500</b>
<b>499</b>	43	42	42	56	<b>499</b>
<b>498</b>	42	41	41	56	<b>498</b>
<b>497</b>	41	41	40	55	<b>497</b>
<b>496</b>	40	40	40	55	<b>496</b>
<b>495</b>	40	39	39	54	<b>495</b>
<b>494</b>	39	39	38	54	<b>494</b>
<b>493</b>	38	38	38	53	<b>493</b>
<b>492</b>	38	37	37	52	<b>492</b>
<b>491</b>	37	37	36	51	<b>491</b>
<b>490</b>	36	36	35	51	<b>490</b>
<b>489</b>	36	36	35	50	<b>489</b>
<b>488</b>	35	35	34	49	<b>488</b>
<b>487</b>	34	35	34	48	<b>487</b>
<b>486</b>	34	34	33	48	<b>486</b>
<b>485</b>	33	34	32	47	<b>485</b>
<b>484</b>	33	33	32	46	<b>484</b>
<b>483</b>	32	33	31	45	<b>483</b>
<b>482</b>	31	32	30	44	<b>482</b>
<b>481</b>	31	31	29	44	<b>481</b>
<b>480</b>	30	31	29	43	<b>480</b>
<b>479</b>	30	30	28	42	<b>479</b>
<b>478</b>	29	30	28	41	<b>478</b>
<b>477</b>	28	29	27	41	<b>477</b>
<b>476</b>	28	29	26	40	<b>476</b>
<b>475</b>	27	28	26	39	<b>475</b>
<b>474</b>	27	27	25	38	<b>474</b>
<b>473</b>	25	27	24	37	<b>473</b>
<b>472</b>	24	26	24	37	<b>472</b>
<b>471</b>	23	26	23	36	<b>471</b>
<b>470</b>	22	25	22	35	<b>470</b>
<b>469</b>	21	25	22	34	<b>469</b>
<b>468</b>	20	24	21	33	<b>468</b>
<b>467</b>	20	24	21	33	<b>467</b>
<b>466</b>	19	23	21	32	<b>466</b>
<b>465</b>	19	23	20	31	<b>465</b>
<b>464</b>	19	22	19	30	<b>464</b>
<b>463</b>	18	22	19	29	<b>463</b>
<b>462</b>	18	21	18	29	<b>462</b>
<b>461</b>	17	21	18	28	<b>461</b>
<b>460</b>	17	20	18	27	<b>460</b>
<b>459</b>	17	20	17	26	<b>459</b>
<b>458</b>	16	19	16	25	<b>458</b>
<b>457</b>	16	19	16	25	<b>457</b>
<b>456</b>	15	18	16	24	<b>456</b>

**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
455	15	18	15	23	455
454	15	17	15	22	454
453	14	17	14	21	453
452	14	16	14	20	452
451	14	16	14	19	451
450	13	16	13	18	450
449	13	15	13	18	449
448	13	15	13	17	448
447	12	14	12	16	447
446	12	14	11	16	446
445	12	14	11	15	445
444	11	13	11	14	444
443	11	13	10	14	443
442	11	12	10	13	442
441	10	12	10	12	441
440	10	12	9	12	440
439	10	11	9	11	439
438	9	11	9	10	438
437	9	11	8	10	437
436	9	10	8	9	436
435	9	10	8	9	435
434	8	10	7	8	434
433	8	9	7	7	433
432	7	9	7	7	432
431	7	9	6	6	431
430	6	8	6	6	430
429	6	8	6	5	429
428	5	8	6	5	428
427	5	7	5	4	427
426	5	7	5	4	426
425	4	7	5	4	425
424	4	7	4	3	424
423	4	6	4	3	423
422	3	6	4	3	422
421	3	6	4	2	421
420	3	6	3	2	420
419	3	5	3	2	419
418	3	5	3	2	418
417	2	5	3	1	417
416	2	5	3	1	416
415	2	4	2	1	415
414	2	4	2	1	414
413	1	4	2	1	413
412	1	4	2	1	412
411	1	4	2	1	411



**Table 5: Grade 7 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
410	1	4	1	1	410
409	1	3	1	1	409
408	1	3	1	1	408
407	1	3	1	1	407
406	1	3	1	1	406
405	1	3	1	1	405
404	1	3	1	1	404
403	1	2	1	1	403
402	1	2	1	1	402
401	1	2	1	1	401
400	1	2	1	1	400
399	1	2	1	1	399
398	1	2	1	1	398
397	1	2	1	1	397
396	1	2	1	1	396
395	1	1	1	1	395
394	1	1	1	1	394
393	1	1	1	1	393
392	1	1	1	1	392
391	1	1	1	1	391
390	1	1	1	1	390
389	1	1	1	1	389
388	1	1	1	1	388
387	1	1	1	1	387
386	1	1	1	1	386
385	1	1	1	1	385
384	1	1	1	1	384
383	1	1	1	1	383
382	1	1	1	1	382
381	1	1	1	1	381
380	1	1	1	1	380
379	1	1	1	1	379
378	1	1	1	1	378
377	1	1	1	1	377
376	1	1	1	1	376
375	1	1	1	1	375
374	1	1	1	1	374
373	1	1	1	1	373
372	1	1	1	1	372
371	1	1	1	1	371
370	1	1	1	1	370

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
720	99	99	99	99	99	720
719	99	99	99	99	99	719
718	99	99	99	99	99	718
717	99	99	99	99	99	717
716	99	99	99	99	99	716
715	99	99	99	99	99	715
714	99	99	99	99	99	714
713	99	99	99	99	99	713
712	99	99	99	99	99	712
711	99	99	99	99	99	711
710	99	99	99	99	99	710
709	99	99	99	99	99	709
708	99	99	99	99	99	708
707	99	99	99	99	99	707
706	99	99	99	99	99	706
705	99	99	99	99	99	705
704	99	99	99	99	99	704
703	99	99	99	99	99	703
702	99	99	99	99	99	702
701	99	99	99	99	99	701
700	99	99	99	99	99	700
699	99	99	99	99	99	699
698	99	99	99	99	99	698
697	99	99	99	99	99	697
696	99	99	99	99	99	696
695	99	99	99	99	99	695
694	99	99	99	99	99	694
693	99	99	99	99	99	693
692	99	99	99	99	99	692
691	99	99	99	99	99	691
690	99	99	99	99	99	690
689	99	99	99	99	99	689
688	99	99	99	99	99	688
687	99	99	99	99	99	687
686	99	99	99	99	99	686
685	99	99	99	99	99	685
684	99	99	99	99	99	684
683	99	99	99	99	99	683
682	99	99	99	99	99	682
681	99	99	99	99	99	681
680	99	99	99	99	99	680
679	99	99	99	99	99	679
678	99	99	99	99	99	678
677	99	99	99	99	99	677
676	99	99	99	99	99	676

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
675	99	99	99	99	99	675
674	99	99	99	99	99	674
673	99	99	99	99	99	673
672	99	99	99	99	99	672
671	99	99	99	99	99	671
670	99	99	99	99	99	670
669	99	99	99	99	99	669
668	99	99	99	99	99	668
667	99	99	99	98	99	667
666	99	99	99	98	99	666
665	99	99	99	98	99	665
664	99	99	99	98	99	664
663	99	99	99	98	99	663
662	99	99	99	98	99	662
661	99	99	99	98	99	661
660	99	99	99	98	99	660
659	99	99	99	98	99	659
658	99	99	99	98	99	658
657	99	99	99	98	99	657
656	99	99	99	98	99	656
655	99	99	99	98	99	655
654	99	99	99	98	99	654
653	99	99	99	97	99	653
652	99	99	99	97	99	652
651	99	99	99	97	99	651
650	99	99	99	97	99	650
649	99	99	99	97	99	649
648	99	99	99	97	99	648
647	99	99	99	97	99	647
646	99	99	99	97	99	646
645	99	99	99	97	99	645
644	99	99	99	96	99	644
643	99	99	99	96	99	643
642	99	99	99	96	98	642
641	99	99	99	96	98	641
640	99	99	99	96	98	640
639	99	98	99	96	98	639
638	99	98	99	96	98	638
637	99	98	99	96	98	637
636	99	98	99	95	98	636
635	99	98	99	95	98	635
634	99	98	99	95	98	634
633	99	98	99	95	98	633
632	99	98	99	95	98	632
631	99	98	99	95	98	631

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
630	98	98	99	95	98	630
629	98	98	99	94	97	629
628	98	97	98	94	97	628
627	98	97	98	94	97	627
626	98	97	98	94	97	626
625	98	97	98	94	97	625
624	98	97	98	94	97	624
623	98	97	98	93	97	623
622	98	96	98	93	97	622
621	98	96	98	93	96	621
620	98	96	98	93	96	620
619	98	96	98	93	96	619
618	97	96	97	92	96	618
617	97	95	97	92	96	617
616	97	95	97	92	95	616
615	97	95	97	92	95	615
614	97	95	97	92	95	614
613	97	94	97	91	95	613
612	97	94	96	91	94	612
611	97	94	96	91	94	611
610	96	93	96	91	93	610
609	96	93	96	91	93	609
608	96	93	96	90	93	608
607	96	92	95	90	93	607
606	96	92	95	90	92	606
605	95	92	95	90	92	605
604	95	91	95	89	92	604
603	95	91	94	89	92	603
602	95	91	94	89	91	602
601	94	90	94	88	91	601
600	94	90	93	88	91	600
599	94	90	93	88	91	599
598	94	89	93	88	91	598
597	93	89	92	87	90	597
596	93	88	92	87	90	596
595	92	88	92	87	90	595
594	92	87	91	87	89	594
593	91	87	91	86	89	593
592	90	86	90	86	88	592
591	90	86	90	86	87	591
590	90	85	89	85	87	590
589	89	85	89	85	86	589
588	89	84	88	85	86	588
587	89	84	88	84	86	587
586	88	83	87	84	85	586

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
585	88	83	87	83	85	585
584	88	82	87	83	84	584
583	87	82	86	83	84	583
582	87	81	85	82	84	582
581	86	80	85	82	83	581
580	86	80	84	82	83	580
579	85	79	84	81	82	579
578	85	79	83	81	82	578
577	84	78	82	81	81	577
576	84	77	82	80	80	576
575	83	77	81	80	80	575
574	83	76	81	79	79	574
573	82	76	80	79	79	573
572	81	75	79	78	78	572
571	80	74	79	78	78	571
570	80	74	78	78	77	570
569	79	73	77	77	77	569
568	78	72	77	77	77	568
567	78	71	76	76	76	567
566	77	71	75	76	76	566
565	77	70	75	76	76	565
564	76	69	74	75	75	564
563	76	69	73	75	74	563
562	76	68	73	74	73	562
561	75	67	72	74	73	561
560	74	67	71	73	72	560
559	73	66	70	73	71	559
558	73	65	70	72	70	558
557	72	65	69	72	70	557
556	71	64	68	72	69	556
555	70	63	67	71	68	555
554	70	63	67	71	67	554
553	69	62	66	70	67	553
552	68	61	65	70	66	552
551	68	61	64	69	66	551
550	67	60	63	68	65	550
549	66	59	63	68	64	549
548	66	58	62	67	64	548
547	65	57	61	67	63	547
546	64	57	60	66	63	546
545	63	56	60	66	62	545
544	62	55	59	65	61	544
543	60	55	58	65	60	543
542	60	54	57	64	59	542
541	59	53	57	64	58	541

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
540	58	53	55	63	57	540
539	58	52	55	63	56	539
538	57	51	54	62	56	538
537	56	50	53	62	55	537
536	55	50	52	61	54	536
535	54	49	52	60	53	535
534	53	48	51	60	53	534
533	52	47	50	59	53	533
532	51	47	49	59	52	532
531	50	46	49	58	52	531
530	49	45	48	57	51	530
529	48	45	47	57	51	529
528	48	44	46	56	51	528
527	47	44	45	55	50	527
526	47	43	45	55	50	526
525	46	42	44	54	49	525
524	46	41	43	54	48	524
523	45	41	43	53	48	523
522	45	40	42	53	47	522
521	44	39	41	52	46	521
520	44	39	40	52	46	520
519	44	38	40	51	45	519
518	43	38	39	50	44	518
517	43	37	38	50	44	517
516	42	36	38	49	43	516
515	42	36	37	48	42	515
514	42	35	36	48	41	514
513	41	35	35	47	40	513
512	40	34	35	46	39	512
511	39	34	34	46	38	511
510	38	33	34	45	37	510
509	37	33	33	44	37	509
508	36	32	32	44	36	508
507	35	32	32	43	36	507
506	33	31	31	42	35	506
505	32	31	31	42	35	505
504	32	30	30	41	35	504
503	31	29	29	40	34	503
502	31	29	29	40	34	502
501	30	28	28	39	34	501
500	30	28	28	38	34	500
499	29	27	27	38	33	499
498	28	27	26	37	33	498
497	28	26	26	36	32	497
496	27	26	26	35	31	496

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
495	27	25	25	35	31	495
494	26	25	24	34	30	494
493	26	24	24	33	29	493
492	25	24	23	33	28	492
491	24	24	23	32	27	491
490	24	23	22	31	27	490
489	23	23	22	31	26	489
488	23	22	21	30	25	488
487	22	22	21	29	24	487
486	22	21	20	29	24	486
485	21	21	20	28	23	485
484	21	20	19	27	22	484
483	21	20	19	26	22	483
482	20	20	19	25	21	482
481	20	19	18	25	21	481
480	19	19	18	24	21	480
479	19	18	17	23	20	479
478	19	18	17	23	20	478
477	18	18	16	22	20	477
476	18	17	16	21	19	476
475	17	17	16	21	19	475
474	17	16	15	20	19	474
473	17	16	15	19	18	473
472	16	16	15	19	17	472
471	16	16	14	18	17	471
470	15	15	14	17	16	470
469	15	15	13	17	15	469
468	15	15	13	16	15	468
467	14	14	13	15	14	467
466	13	14	12	15	13	466
465	13	14	12	14	13	465
464	12	13	12	13	12	464
463	12	13	11	12	12	463
462	11	12	11	11	11	462
461	11	12	11	11	11	461
460	10	12	10	10	10	460
459	10	12	10	10	10	459
458	10	11	10	9	10	458
457	9	11	9	9	9	457
456	9	11	9	8	8	456
455	9	11	9	8	8	455
454	9	10	8	7	7	454
453	8	10	8	7	6	453
452	8	10	8	6	6	452
451	8	10	8	6	6	451

**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
450	7	9	7	5	5	450
449	7	9	7	5	5	449
448	7	9	7	4	5	448
447	7	9	6	4	4	447
446	6	8	6	4	4	446
445	6	8	6	3	4	445
444	6	8	6	3	4	444
443	6	8	6	3	3	443
442	5	7	5	2	3	442
441	5	7	5	2	3	441
440	5	7	5	2	3	440
439	5	7	5	2	2	439
438	5	6	4	1	2	438
437	5	6	4	1	2	437
436	4	6	4	1	2	436
435	4	6	4	1	2	435
434	4	6	4	1	2	434
433	4	5	3	1	1	433
432	3	5	3	1	1	432
431	3	5	3	1	1	431
430	3	5	3	1	1	430
429	2	5	3	1	1	429
428	2	4	2	1	1	428
427	2	4	2	1	1	427
426	2	4	2	1	1	426
425	2	4	2	1	1	425
424	2	4	2	1	1	424
423	2	4	2	1	1	423
422	2	4	2	1	1	422
421	2	3	1	1	1	421
420	1	3	1	1	1	420
419	1	3	1	1	1	419
418	1	3	1	1	1	418
417	1	3	1	1	1	417
416	1	3	1	1	1	416
415	1	3	1	1	1	415
414	1	2	1	1	1	414
413	1	2	1	1	1	413
412	1	2	1	1	1	412
411	1	2	1	1	1	411
410	1	2	1	1	1	410
409	1	2	1	1	1	409
408	1	2	1	1	1	408
407	1	2	1	1	1	407
406	1	2	1	1	1	406



**Table 6: Grade 8 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
405	1	2	1	1	1	405
404	1	1	1	1	1	404
403	1	1	1	1	1	403
402	1	1	1	1	1	402
401	1	1	1	1	1	401
400	1	1	1	1	1	400
399	1	1	1	1	1	399
398	1	1	1	1	1	398
397	1	1	1	1	1	397
396	1	1	1	1	1	396
395	1	1	1	1	1	395
394	1	1	1	1	1	394
393	1	1	1	1	1	393
392	1	1	1	1	1	392
391	1	1	1	1	1	391
390	1	1	1	1	1	390
389	1	1	1	1	1	389
388	1	1	1	1	1	388
387	1	1	1	1	1	387
386	1	1	1	1	1	386
385	1	1	1	1	1	385

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>750</b>	99	99	99	99	<b>750</b>
<b>749</b>	99	99	99	99	<b>749</b>
<b>748</b>	99	99	99	99	<b>748</b>
<b>747</b>	99	99	99	99	<b>747</b>
<b>746</b>	99	99	99	99	<b>746</b>
<b>745</b>	99	99	99	99	<b>745</b>
<b>744</b>	99	99	99	99	<b>744</b>
<b>743</b>	99	99	99	99	<b>743</b>
<b>742</b>	99	99	99	99	<b>742</b>
<b>741</b>	99	99	99	99	<b>741</b>
<b>740</b>	99	99	99	99	<b>740</b>
<b>739</b>	99	99	99	99	<b>739</b>
<b>738</b>	99	99	99	99	<b>738</b>
<b>737</b>	99	99	99	99	<b>737</b>
<b>736</b>	99	99	99	99	<b>736</b>
<b>735</b>	99	99	99	99	<b>735</b>
<b>734</b>	99	99	99	99	<b>734</b>
<b>733</b>	99	99	99	99	<b>733</b>
<b>732</b>	99	99	99	99	<b>732</b>
<b>731</b>	99	99	99	99	<b>731</b>
<b>730</b>	99	99	99	99	<b>730</b>
<b>729</b>	99	99	99	99	<b>729</b>
<b>728</b>	99	99	99	99	<b>728</b>
<b>727</b>	99	99	99	99	<b>727</b>
<b>726</b>	99	99	99	99	<b>726</b>
<b>725</b>	99	99	99	99	<b>725</b>
<b>724</b>	99	99	99	99	<b>724</b>
<b>723</b>	99	99	99	99	<b>723</b>
<b>722</b>	99	99	99	99	<b>722</b>
<b>721</b>	99	99	99	99	<b>721</b>
<b>720</b>	99	99	99	99	<b>720</b>
<b>719</b>	99	99	99	99	<b>719</b>
<b>718</b>	99	99	99	99	<b>718</b>
<b>717</b>	99	99	99	99	<b>717</b>
<b>716</b>	99	99	99	99	<b>716</b>
<b>715</b>	99	99	99	99	<b>715</b>
<b>714</b>	99	99	99	99	<b>714</b>
<b>713</b>	99	99	99	99	<b>713</b>
<b>712</b>	99	99	99	99	<b>712</b>
<b>711</b>	99	99	99	99	<b>711</b>
<b>710</b>	99	99	99	99	<b>710</b>
<b>709</b>	99	99	99	99	<b>709</b>
<b>708</b>	99	99	99	99	<b>708</b>
<b>707</b>	99	99	99	99	<b>707</b>
<b>706</b>	99	99	99	99	<b>706</b>

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>705</b>	99	99	99	99	<b>705</b>
<b>704</b>	99	99	99	98	<b>704</b>
<b>703</b>	99	99	99	98	<b>703</b>
<b>702</b>	99	99	99	98	<b>702</b>
<b>701</b>	99	99	99	98	<b>701</b>
<b>700</b>	99	99	99	98	<b>700</b>
<b>699</b>	99	99	99	98	<b>699</b>
<b>698</b>	99	99	99	98	<b>698</b>
<b>697</b>	99	99	99	98	<b>697</b>
<b>696</b>	99	99	99	98	<b>696</b>
<b>695</b>	99	99	99	98	<b>695</b>
<b>694</b>	99	99	99	98	<b>694</b>
<b>693</b>	99	99	99	98	<b>693</b>
<b>692</b>	99	99	99	98	<b>692</b>
<b>691</b>	99	99	99	98	<b>691</b>
<b>690</b>	99	99	99	98	<b>690</b>
<b>689</b>	99	99	99	98	<b>689</b>
<b>688</b>	99	99	99	98	<b>688</b>
<b>687</b>	99	99	99	98	<b>687</b>
<b>686</b>	99	99	99	97	<b>686</b>
<b>685</b>	99	99	99	97	<b>685</b>
<b>684</b>	99	99	99	97	<b>684</b>
<b>683</b>	99	99	99	97	<b>683</b>
<b>682</b>	99	99	99	97	<b>682</b>
<b>681</b>	99	99	99	97	<b>681</b>
<b>680</b>	99	99	99	97	<b>680</b>
<b>679</b>	99	99	99	97	<b>679</b>
<b>678</b>	99	99	99	97	<b>678</b>
<b>677</b>	99	99	99	97	<b>677</b>
<b>676</b>	99	99	99	97	<b>676</b>
<b>675</b>	99	99	99	97	<b>675</b>
<b>674</b>	99	99	99	97	<b>674</b>
<b>673</b>	99	99	99	97	<b>673</b>
<b>672</b>	99	99	99	96	<b>672</b>
<b>671</b>	99	99	99	96	<b>671</b>
<b>670</b>	99	99	99	96	<b>670</b>
<b>669</b>	99	99	99	96	<b>669</b>
<b>668</b>	99	99	99	96	<b>668</b>
<b>667</b>	99	99	99	96	<b>667</b>
<b>666</b>	99	99	99	96	<b>666</b>
<b>665</b>	99	99	99	96	<b>665</b>
<b>664</b>	99	99	99	96	<b>664</b>
<b>663</b>	99	99	99	96	<b>663</b>
<b>662</b>	99	99	99	96	<b>662</b>
<b>661</b>	98	99	99	95	<b>661</b>

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>660</b>	98	98	99	95	<b>660</b>
<b>659</b>	98	98	99	95	<b>659</b>
<b>658</b>	98	98	99	95	<b>658</b>
<b>657</b>	98	98	99	95	<b>657</b>
<b>656</b>	98	98	99	95	<b>656</b>
<b>655</b>	98	98	99	95	<b>655</b>
<b>654</b>	98	98	99	94	<b>654</b>
<b>653</b>	98	98	99	94	<b>653</b>
<b>652</b>	98	98	99	94	<b>652</b>
<b>651</b>	97	98	98	94	<b>651</b>
<b>650</b>	97	98	98	94	<b>650</b>
<b>649</b>	97	98	98	94	<b>649</b>
<b>648</b>	97	97	98	94	<b>648</b>
<b>647</b>	97	97	98	93	<b>647</b>
<b>646</b>	97	97	98	93	<b>646</b>
<b>645</b>	97	97	98	93	<b>645</b>
<b>644</b>	96	97	98	93	<b>644</b>
<b>643</b>	96	97	98	93	<b>643</b>
<b>642</b>	96	97	97	93	<b>642</b>
<b>641</b>	96	96	97	92	<b>641</b>
<b>640</b>	96	96	97	92	<b>640</b>
<b>639</b>	95	96	97	92	<b>639</b>
<b>638</b>	95	96	97	92	<b>638</b>
<b>637</b>	95	96	97	92	<b>637</b>
<b>636</b>	95	96	96	92	<b>636</b>
<b>635</b>	95	95	96	91	<b>635</b>
<b>634</b>	95	95	96	91	<b>634</b>
<b>633</b>	94	95	96	91	<b>633</b>
<b>632</b>	94	95	96	91	<b>632</b>
<b>631</b>	93	95	95	91	<b>631</b>
<b>630</b>	93	95	95	90	<b>630</b>
<b>629</b>	92	94	95	90	<b>629</b>
<b>628</b>	92	94	95	90	<b>628</b>
<b>627</b>	91	94	94	90	<b>627</b>
<b>626</b>	91	94	94	90	<b>626</b>
<b>625</b>	91	93	94	89	<b>625</b>
<b>624</b>	91	93	94	89	<b>624</b>
<b>623</b>	90	93	93	89	<b>623</b>
<b>622</b>	90	93	93	89	<b>622</b>
<b>621</b>	89	93	93	89	<b>621</b>
<b>620</b>	89	92	92	88	<b>620</b>
<b>619</b>	88	92	92	88	<b>619</b>
<b>618</b>	87	92	92	88	<b>618</b>
<b>617</b>	87	92	91	88	<b>617</b>
<b>616</b>	86	91	91	87	<b>616</b>

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>615</b>	86	91	91	87	<b>615</b>
<b>614</b>	85	91	90	87	<b>614</b>
<b>613</b>	85	90	90	86	<b>613</b>
<b>612</b>	84	90	89	86	<b>612</b>
<b>611</b>	84	90	89	86	<b>611</b>
<b>610</b>	83	89	89	86	<b>610</b>
<b>609</b>	83	89	88	85	<b>609</b>
<b>608</b>	83	89	88	85	<b>608</b>
<b>607</b>	82	88	87	85	<b>607</b>
<b>606</b>	82	88	87	85	<b>606</b>
<b>605</b>	82	88	87	84	<b>605</b>
<b>604</b>	82	87	86	84	<b>604</b>
<b>603</b>	81	87	86	84	<b>603</b>
<b>602</b>	80	87	85	83	<b>602</b>
<b>601</b>	80	86	85	83	<b>601</b>
<b>600</b>	79	86	84	83	<b>600</b>
<b>599</b>	78	86	84	83	<b>599</b>
<b>598</b>	77	85	83	82	<b>598</b>
<b>597</b>	76	85	83	82	<b>597</b>
<b>596</b>	76	84	82	82	<b>596</b>
<b>595</b>	75	84	82	81	<b>595</b>
<b>594</b>	74	84	81	81	<b>594</b>
<b>593</b>	74	83	81	81	<b>593</b>
<b>592</b>	73	83	80	80	<b>592</b>
<b>591</b>	72	82	79	80	<b>591</b>
<b>590</b>	72	82	79	80	<b>590</b>
<b>589</b>	71	81	78	79	<b>589</b>
<b>588</b>	70	81	78	79	<b>588</b>
<b>587</b>	70	80	77	79	<b>587</b>
<b>586</b>	69	80	77	78	<b>586</b>
<b>585</b>	69	80	76	78	<b>585</b>
<b>584</b>	68	79	75	77	<b>584</b>
<b>583</b>	68	79	75	77	<b>583</b>
<b>582</b>	67	78	74	77	<b>582</b>
<b>581</b>	66	78	74	76	<b>581</b>
<b>580</b>	65	77	73	76	<b>580</b>
<b>579</b>	65	77	72	76	<b>579</b>
<b>578</b>	64	76	72	75	<b>578</b>
<b>577</b>	63	76	71	75	<b>577</b>
<b>576</b>	62	75	71	74	<b>576</b>
<b>575</b>	62	75	70	74	<b>575</b>
<b>574</b>	61	74	69	74	<b>574</b>
<b>573</b>	60	74	69	73	<b>573</b>
<b>572</b>	60	73	68	73	<b>572</b>
<b>571</b>	59	73	68	72	<b>571</b>

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
570	59	72	67	72	570
569	59	72	66	72	569
568	58	71	66	71	568
567	58	71	65	71	567
566	57	70	64	70	566
565	57	69	64	70	565
564	56	69	63	69	564
563	55	68	63	69	563
562	55	68	62	68	562
561	54	67	61	68	561
560	53	67	61	67	560
559	53	66	60	67	559
558	52	66	59	66	558
557	51	65	59	66	557
556	51	65	58	66	556
555	50	64	57	65	555
554	49	63	57	65	554
553	48	63	56	64	553
552	47	62	55	64	552
551	47	62	55	63	551
550	46	61	54	63	550
549	45	61	53	62	549
548	44	60	53	62	548
547	44	60	52	61	547
546	43	59	52	61	546
545	43	58	51	60	545
544	43	58	50	60	544
543	42	57	50	59	543
542	42	57	49	59	542
541	41	56	49	58	541
540	41	56	48	58	540
539	41	55	47	57	539
538	40	55	47	57	538
537	40	54	46	56	537
536	39	53	46	56	536
535	39	53	45	55	535
534	38	52	44	54	534
533	37	52	44	54	533
532	37	51	43	53	532
531	36	51	43	53	531
530	35	50	42	52	530
529	35	49	41	52	529
528	34	49	41	51	528
527	34	48	40	50	527
526	33	48	40	50	526

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>525</b>	33	47	39	49	<b>525</b>
<b>524</b>	32	47	39	48	<b>524</b>
<b>523</b>	32	46	38	48	<b>523</b>
<b>522</b>	32	46	38	47	<b>522</b>
<b>521</b>	31	45	37	46	<b>521</b>
<b>520</b>	31	45	36	46	<b>520</b>
<b>519</b>	31	44	36	45	<b>519</b>
<b>518</b>	30	44	35	45	<b>518</b>
<b>517</b>	29	43	35	44	<b>517</b>
<b>516</b>	29	43	34	44	<b>516</b>
<b>515</b>	28	42	34	43	<b>515</b>
<b>514</b>	27	41	33	42	<b>514</b>
<b>513</b>	27	41	33	42	<b>513</b>
<b>512</b>	26	40	32	41	<b>512</b>
<b>511</b>	25	40	32	40	<b>511</b>
<b>510</b>	25	39	31	40	<b>510</b>
<b>509</b>	24	39	31	39	<b>509</b>
<b>508</b>	24	38	30	38	<b>508</b>
<b>507</b>	24	38	30	38	<b>507</b>
<b>506</b>	23	37	29	37	<b>506</b>
<b>505</b>	23	37	29	37	<b>505</b>
<b>504</b>	23	36	28	36	<b>504</b>
<b>503</b>	22	36	28	35	<b>503</b>
<b>502</b>	22	35	27	35	<b>502</b>
<b>501</b>	22	35	27	34	<b>501</b>
<b>500</b>	21	34	26	34	<b>500</b>
<b>499</b>	21	34	26	33	<b>499</b>
<b>498</b>	20	34	25	32	<b>498</b>
<b>497</b>	19	33	25	32	<b>497</b>
<b>496</b>	19	33	24	31	<b>496</b>
<b>495</b>	18	32	24	30	<b>495</b>
<b>494</b>	18	32	23	30	<b>494</b>
<b>493</b>	17	31	23	29	<b>493</b>
<b>492</b>	17	31	23	28	<b>492</b>
<b>491</b>	17	30	22	28	<b>491</b>
<b>490</b>	16	30	22	27	<b>490</b>
<b>489</b>	16	29	21	26	<b>489</b>
<b>488</b>	16	29	21	26	<b>488</b>
<b>487</b>	16	29	21	25	<b>487</b>
<b>486</b>	15	28	20	24	<b>486</b>
<b>485</b>	15	28	20	24	<b>485</b>
<b>484</b>	15	27	19	23	<b>484</b>
<b>483</b>	15	27	19	22	<b>483</b>
<b>482</b>	14	26	18	22	<b>482</b>
<b>481</b>	14	26	18	21	<b>481</b>

**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
480	13	25	18	20	480
479	13	25	17	19	479
478	12	25	17	19	478
477	12	24	16	18	477
476	11	24	16	17	476
475	11	23	16	16	475
474	10	23	15	15	474
473	10	23	15	14	473
472	10	22	15	14	472
471	10	22	14	13	471
470	9	21	14	13	470
469	9	21	13	12	469
468	9	21	13	11	468
467	9	20	13	11	467
466	8	20	12	10	466
465	8	20	12	9	465
464	7	19	12	8	464
463	7	19	11	8	463
462	6	19	11	7	462
461	6	18	11	7	461
460	6	18	10	6	460
459	5	17	10	5	459
458	5	17	10	5	458
457	5	17	9	4	457
456	5	16	9	4	456
455	5	16	9	3	455
454	4	16	8	3	454
453	4	15	8	3	453
452	4	15	8	2	452
451	4	15	7	2	451
450	4	14	7	2	450
449	4	14	7	2	449
448	3	14	6	1	448
447	3	13	6	1	447
446	3	13	5	1	446
445	3	13	5	1	445
444	3	13	5	1	444
443	2	12	4	1	443
442	2	12	4	1	442
441	2	12	4	1	441
440	2	11	3	1	440
439	1	11	3	1	439
438	1	11	3	1	438
437	1	10	2	1	437
436	1	10	2	1	436



**Table 7: Grade 9 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
435	1	10	2	1	435
434	1	9	2	1	434
433	1	9	2	1	433
432	1	9	1	1	432
431	1	8	1	1	431
430	1	8	1	1	430
429	1	8	1	1	429
428	1	7	1	1	428
427	1	7	1	1	427
426	1	7	1	1	426
425	1	6	1	1	425
424	1	6	1	1	424
423	1	5	1	1	423
422	1	5	1	1	422
421	1	4	1	1	421
420	1	4	1	1	420
419	1	3	1	1	419
418	1	2	1	1	418
417	1	2	1	1	417
416	1	1	1	1	416
415	1	1	1	1	415
414	1	1	1	1	414
413	1	1	1	1	413
412	1	1	1	1	412
411	1	1	1	1	411
410	1	1	1	1	410

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
780	99	99	99	99	99	780
779	99	99	99	99	99	779
778	99	99	99	99	99	778
777	99	99	99	99	99	777
776	99	99	99	99	99	776
775	99	99	99	99	99	775
774	99	99	99	99	99	774
773	99	99	99	99	99	773
772	99	99	99	99	99	772
771	99	99	99	99	99	771
770	99	99	99	99	99	770
769	99	99	99	99	99	769
768	99	99	99	99	99	768
767	99	99	99	99	99	767
766	99	99	99	99	99	766
765	99	99	99	99	99	765
764	99	99	99	99	99	764
763	99	99	99	99	99	763
762	99	99	99	99	99	762
761	99	99	99	99	99	761
760	99	99	99	99	99	760
759	99	99	99	99	99	759
758	99	99	99	99	99	758
757	99	99	99	99	99	757
756	99	99	99	99	99	756
755	99	99	99	99	99	755
754	99	99	99	99	99	754
753	99	99	99	99	99	753
752	99	99	99	99	99	752
751	99	99	99	99	99	751
750	99	99	99	99	99	750
749	99	99	99	99	99	749
748	99	99	99	99	99	748
747	99	99	99	99	99	747
746	99	99	99	99	99	746
745	99	99	99	99	99	745
744	99	99	99	99	99	744
743	99	99	99	99	99	743
742	99	99	99	99	99	742
741	99	99	99	99	99	741
740	99	99	99	99	99	740
739	99	99	99	99	99	739
738	99	99	99	99	99	738
737	99	99	99	99	99	737
736	99	99	99	99	99	736

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
735	99	99	99	99	99	735
734	99	99	99	99	99	734
733	99	99	99	99	99	733
732	99	99	99	99	99	732
731	99	99	99	99	99	731
730	99	99	99	99	99	730
729	99	99	99	99	99	729
728	99	99	99	99	99	728
727	99	99	99	99	99	727
726	99	99	99	99	99	726
725	99	99	99	99	99	725
724	99	99	99	99	99	724
723	99	99	99	99	99	723
722	99	99	99	99	99	722
721	99	99	99	99	99	721
720	99	99	99	99	99	720
719	99	99	99	99	99	719
718	98	99	99	98	99	718
717	98	99	99	98	99	717
716	98	99	99	98	99	716
715	98	99	99	98	99	715
714	98	99	99	98	98	714
713	98	99	99	98	98	713
712	98	99	99	98	98	712
711	98	99	99	98	98	711
710	98	99	99	98	98	710
709	98	99	99	98	98	709
708	98	99	99	98	97	708
707	98	99	99	98	97	707
706	98	99	99	98	97	706
705	98	99	99	98	97	705
704	98	99	99	98	97	704
703	98	99	99	98	97	703
702	98	99	99	97	97	702
701	98	99	99	97	97	701
700	98	99	99	97	97	700
699	98	98	99	97	97	699
698	98	98	99	97	97	698
697	98	98	99	97	97	697
696	98	98	98	97	96	696
695	98	98	98	97	96	695
694	98	98	98	97	96	694
693	97	98	98	97	96	693
692	97	98	98	97	96	692
691	97	98	98	97	96	691

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
690	97	98	98	96	96	690
689	97	98	98	96	96	689
688	97	98	98	96	96	688
687	96	98	98	96	96	687
686	96	98	98	96	96	686
685	96	98	98	96	95	685
684	96	98	98	96	95	684
683	96	97	97	96	95	683
682	96	97	97	96	95	682
681	96	97	97	95	95	681
680	96	97	97	95	94	680
679	95	97	97	95	94	679
678	95	97	97	95	94	678
677	95	97	97	95	94	677
676	94	97	97	95	94	676
675	94	97	97	95	94	675
674	94	97	96	94	93	674
673	94	96	96	94	93	673
672	93	96	96	94	93	672
671	93	96	96	94	93	671
670	93	96	96	94	93	670
669	93	96	96	94	93	669
668	93	96	95	94	92	668
667	93	96	95	93	92	667
666	93	95	95	93	92	666
665	92	95	95	93	91	665
664	92	95	95	93	91	664
663	91	95	94	93	91	663
662	91	95	94	93	91	662
661	90	95	94	92	90	661
660	90	94	94	92	90	660
659	90	94	93	92	90	659
658	89	94	93	92	90	658
657	89	94	93	92	89	657
656	89	93	93	92	89	656
655	89	93	92	91	89	655
654	88	93	92	91	89	654
653	88	93	92	91	88	653
652	88	92	92	91	88	652
651	87	92	91	91	88	651
650	87	92	91	90	87	650
649	87	92	91	90	87	649
648	87	91	90	90	87	648
647	86	91	90	90	86	647
646	86	91	90	89	86	646

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
645	86	90	89	89	86	645
644	85	90	89	89	86	644
643	85	90	88	89	86	643
642	84	90	88	89	85	642
641	84	89	88	88	85	641
640	83	89	87	88	85	640
639	82	89	87	88	85	639
638	82	88	87	88	85	638
637	81	88	86	87	85	637
636	80	88	86	87	85	636
635	80	87	85	87	84	635
634	79	87	85	87	84	634
633	79	86	84	86	84	633
632	78	86	84	86	83	632
631	78	86	84	86	83	631
630	77	85	83	86	82	630
629	77	85	82	85	82	629
628	77	85	82	85	82	628
627	76	84	81	85	81	627
626	76	84	81	84	81	626
625	76	83	81	84	81	625
624	75	83	80	84	80	624
623	75	82	80	84	80	623
622	75	82	79	83	79	622
621	74	82	79	83	79	621
620	74	81	78	83	78	620
619	73	81	77	82	77	619
618	72	80	77	82	76	618
617	72	80	77	82	76	617
616	71	79	76	81	76	616
615	70	79	75	81	75	615
614	70	78	75	81	75	614
613	69	78	74	80	75	613
612	68	77	74	80	75	612
611	67	77	73	79	75	611
610	67	76	73	79	74	610
609	66	76	72	79	74	609
608	66	75	72	78	74	608
607	65	75	71	78	73	607
606	65	74	70	77	73	606
605	64	74	70	77	72	605
604	64	73	69	77	72	604
603	63	73	69	76	71	603
602	62	72	68	76	71	602
601	62	72	68	75	70	601

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
<b>600</b>	61	71	67	75	69	<b>600</b>
<b>599</b>	60	71	66	75	68	<b>599</b>
<b>598</b>	60	70	66	74	68	<b>598</b>
<b>597</b>	59	70	65	74	68	<b>597</b>
<b>596</b>	59	69	65	73	68	<b>596</b>
<b>595</b>	58	69	64	73	67	<b>595</b>
<b>594</b>	58	68	63	72	67	<b>594</b>
<b>593</b>	57	67	63	72	67	<b>593</b>
<b>592</b>	57	67	62	71	66	<b>592</b>
<b>591</b>	57	66	62	71	66	<b>591</b>
<b>590</b>	56	66	61	71	66	<b>590</b>
<b>589</b>	56	65	61	70	66	<b>589</b>
<b>588</b>	55	65	60	70	65	<b>588</b>
<b>587</b>	55	64	59	69	65	<b>587</b>
<b>586</b>	55	64	59	69	65	<b>586</b>
<b>585</b>	54	63	58	68	64	<b>585</b>
<b>584</b>	54	62	58	68	64	<b>584</b>
<b>583</b>	54	62	57	67	64	<b>583</b>
<b>582</b>	53	61	57	67	63	<b>582</b>
<b>581</b>	53	61	56	66	62	<b>581</b>
<b>580</b>	53	60	55	66	61	<b>580</b>
<b>579</b>	52	59	55	65	60	<b>579</b>
<b>578</b>	52	59	54	64	59	<b>578</b>
<b>577</b>	51	58	54	64	59	<b>577</b>
<b>576</b>	51	58	53	63	58	<b>576</b>
<b>575</b>	50	57	53	63	57	<b>575</b>
<b>574</b>	49	56	52	62	57	<b>574</b>
<b>573</b>	49	56	51	62	57	<b>573</b>
<b>572</b>	48	55	51	61	56	<b>572</b>
<b>571</b>	47	55	50	60	56	<b>571</b>
<b>570</b>	46	54	50	60	55	<b>570</b>
<b>569</b>	46	53	49	59	55	<b>569</b>
<b>568</b>	45	53	49	59	55	<b>568</b>
<b>567</b>	44	52	48	58	54	<b>567</b>
<b>566</b>	44	52	47	57	54	<b>566</b>
<b>565</b>	43	51	47	57	53	<b>565</b>
<b>564</b>	43	50	46	56	53	<b>564</b>
<b>563</b>	42	50	46	56	53	<b>563</b>
<b>562</b>	42	49	45	55	52	<b>562</b>
<b>561</b>	41	49	45	54	52	<b>561</b>
<b>560</b>	41	48	44	54	51	<b>560</b>
<b>559</b>	40	48	43	53	51	<b>559</b>
<b>558</b>	40	47	43	53	50	<b>558</b>
<b>557</b>	39	46	42	52	50	<b>557</b>
<b>556</b>	39	46	42	51	50	<b>556</b>

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
555	39	45	41	51	49	555
554	38	45	41	50	49	554
553	38	44	40	49	48	553
552	38	44	39	48	48	552
551	37	43	39	48	46	551
550	37	42	38	47	45	550
549	37	42	38	47	44	549
548	36	41	37	46	43	548
547	36	41	37	45	42	547
546	35	40	36	45	41	546
545	34	40	35	44	40	545
544	33	39	35	43	40	544
543	32	39	34	43	39	543
542	32	38	34	42	39	542
541	31	37	34	41	38	541
540	30	37	33	40	38	540
539	30	36	32	40	37	539
538	29	36	32	39	37	538
537	29	35	31	38	37	537
536	29	35	31	38	36	536
535	28	34	30	37	36	535
534	28	34	30	36	35	534
533	28	33	29	35	35	533
532	27	33	29	35	34	532
531	27	32	28	34	34	531
530	26	32	28	33	34	530
529	26	31	27	32	33	529
528	26	31	27	32	33	528
527	25	30	26	31	32	527
526	25	30	26	30	32	526
525	24	29	25	29	32	525
524	24	29	25	29	31	524
523	24	28	24	28	31	523
522	23	28	24	27	29	522
521	23	27	24	27	28	521
520	22	27	23	26	27	520
519	21	26	23	25	26	519
518	21	26	22	25	25	518
517	20	25	22	24	24	517
516	20	25	21	23	23	516
515	19	24	21	22	22	515
514	19	24	20	22	22	514
513	18	23	20	21	21	513
512	18	23	19	20	21	512
511	18	23	19	20	20	511

**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
510	18	22	19	19	20	510
509	17	22	18	18	19	509
508	17	21	18	18	19	508
507	17	21	17	17	19	507
506	17	21	17	16	18	506
505	16	20	17	16	18	505
504	16	20	16	15	18	504
503	15	19	16	15	18	503
502	15	19	16	14	17	502
501	14	19	15	13	16	501
500	14	18	15	13	15	500
499	14	18	14	12	14	499
498	13	17	14	11	13	498
497	13	17	14	11	12	497
496	13	17	13	10	11	496
495	12	16	13	9	11	495
494	12	16	13	9	11	494
493	12	16	12	9	10	493
492	12	15	12	8	10	492
491	12	15	12	8	9	491
490	11	15	11	7	9	490
489	11	14	11	7	9	489
488	11	14	11	6	8	488
487	10	14	10	6	8	487
486	10	13	10	5	7	486
485	9	13	10	5	7	485
484	9	13	9	5	6	484
483	8	13	9	4	6	483
482	8	12	9	4	5	482
481	7	12	9	4	4	481
480	7	12	8	3	4	480
479	7	11	8	3	4	479
478	6	11	8	3	3	478
477	6	11	7	2	3	477
476	6	11	7	2	3	476
475	5	10	7	2	2	475
474	5	10	7	2	2	474
473	5	10	6	2	2	473
472	5	10	6	1	2	472
471	4	9	6	1	2	471
470	4	9	5	1	1	470
469	4	9	5	1	1	469
468	3	9	5	1	1	468
467	3	8	5	1	1	467
466	3	8	4	1	1	466



**Table 8: Grade 10 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Science</b>	<b>Scale Score</b>
465	3	8	4	1	1	465
464	2	8	4	1	1	464
463	2	8	3	1	1	463
462	2	7	3	1	1	462
461	2	7	3	1	1	461
460	2	7	3	1	1	460
459	1	7	2	1	1	459
458	1	6	2	1	1	458
457	1	6	2	1	1	457
456	1	6	2	1	1	456
455	1	6	1	1	1	455
454	1	6	1	1	1	454
453	1	5	1	1	1	453
452	1	5	1	1	1	452
451	1	5	1	1	1	451
450	1	5	1	1	1	450
449	1	5	1	1	1	449
448	1	4	1	1	1	448
447	1	4	1	1	1	447
446	1	4	1	1	1	446
445	1	4	1	1	1	445
444	1	3	1	1	1	444
443	1	2	1	1	1	443
442	1	2	1	1	1	442
441	1	1	1	1	1	441
440	1	1	1	1	1	440
439	1	1	1	1	1	439
438	1	1	1	1	1	438
437	1	1	1	1	1	437
436	1	1	1	1	1	436
435	1	1	1	1	1	435

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>800</b>	99	99	99	99	<b>800</b>
<b>799</b>	99	99	99	99	<b>799</b>
<b>798</b>	99	99	99	99	<b>798</b>
<b>797</b>	99	99	99	99	<b>797</b>
<b>796</b>	99	99	99	99	<b>796</b>
<b>795</b>	99	99	99	99	<b>795</b>
<b>794</b>	99	99	99	99	<b>794</b>
<b>793</b>	99	99	99	99	<b>793</b>
<b>792</b>	99	99	99	99	<b>792</b>
<b>791</b>	99	99	99	99	<b>791</b>
<b>790</b>	99	99	99	99	<b>790</b>
<b>789</b>	99	99	99	99	<b>789</b>
<b>788</b>	99	99	99	99	<b>788</b>
<b>787</b>	99	99	99	99	<b>787</b>
<b>786</b>	99	99	99	99	<b>786</b>
<b>785</b>	99	99	99	99	<b>785</b>
<b>784</b>	99	99	99	99	<b>784</b>
<b>783</b>	99	99	99	99	<b>783</b>
<b>782</b>	99	99	99	99	<b>782</b>
<b>781</b>	99	99	99	99	<b>781</b>
<b>780</b>	99	99	99	99	<b>780</b>
<b>779</b>	99	99	99	99	<b>779</b>
<b>778</b>	99	99	99	99	<b>778</b>
<b>777</b>	99	99	99	99	<b>777</b>
<b>776</b>	99	99	99	99	<b>776</b>
<b>775</b>	99	99	99	99	<b>775</b>
<b>774</b>	99	99	99	99	<b>774</b>
<b>773</b>	99	99	99	99	<b>773</b>
<b>772</b>	99	99	99	99	<b>772</b>
<b>771</b>	99	99	99	99	<b>771</b>
<b>770</b>	99	99	99	99	<b>770</b>
<b>769</b>	99	99	99	99	<b>769</b>
<b>768</b>	99	99	99	98	<b>768</b>
<b>767</b>	99	99	99	98	<b>767</b>
<b>766</b>	99	99	99	98	<b>766</b>
<b>765</b>	99	99	99	98	<b>765</b>
<b>764</b>	99	99	99	98	<b>764</b>
<b>763</b>	99	99	99	98	<b>763</b>
<b>762</b>	99	99	99	98	<b>762</b>
<b>761</b>	99	99	99	98	<b>761</b>
<b>760</b>	99	99	99	98	<b>760</b>
<b>759</b>	99	99	99	98	<b>759</b>
<b>758</b>	99	99	99	98	<b>758</b>
<b>757</b>	99	99	99	98	<b>757</b>
<b>756</b>	99	99	99	98	<b>756</b>

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
755	99	99	99	98	755
754	98	99	99	98	754
753	98	99	99	98	753
752	98	99	99	98	752
751	98	99	99	97	751
750	98	99	99	97	750
749	98	99	99	97	749
748	98	99	99	97	748
747	98	99	99	97	747
746	98	99	99	97	746
745	98	99	99	97	745
744	98	99	99	97	744
743	98	99	99	97	743
742	98	99	99	97	742
741	98	99	99	97	741
740	98	99	99	97	740
739	98	99	99	97	739
738	98	99	99	97	738
737	98	99	99	96	737
736	98	99	99	96	736
735	98	99	99	96	735
734	98	99	99	96	734
733	98	99	99	96	733
732	98	99	99	96	732
731	97	99	99	96	731
730	97	99	99	96	730
729	97	99	99	96	729
728	97	99	99	96	728
727	97	99	99	96	727
726	97	99	99	95	726
725	97	99	99	95	725
724	97	99	99	95	724
723	97	99	99	95	723
722	97	99	99	95	722
721	97	99	99	95	721
720	97	99	99	95	720
719	97	99	99	95	719
718	97	99	99	94	718
717	97	99	99	94	717
716	97	99	99	94	716
715	97	99	98	94	715
714	96	99	98	94	714
713	96	99	98	94	713
712	96	99	98	93	712
711	96	98	98	93	711

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
710	96	98	98	93	710
709	96	98	98	93	709
708	96	98	98	93	708
707	96	98	98	93	707
706	95	98	98	92	706
705	95	98	97	92	705
704	95	98	97	92	704
703	95	98	97	92	703
702	94	98	97	92	702
701	94	98	97	92	701
700	94	98	97	92	700
699	94	98	97	92	699
698	93	98	97	91	698
697	93	97	96	91	697
696	93	97	96	91	696
695	93	97	96	91	695
694	93	97	96	91	694
693	93	97	96	91	693
692	93	97	96	91	692
691	93	97	96	91	691
690	93	97	95	90	690
689	92	96	95	90	689
688	92	96	95	90	688
687	92	96	95	90	687
686	92	96	95	90	686
685	92	96	95	90	685
684	92	96	94	89	684
683	92	95	94	89	683
682	91	95	94	89	682
681	91	95	94	89	681
680	91	95	94	89	680
679	90	95	93	89	679
678	90	94	93	88	678
677	90	94	93	88	677
676	90	94	93	88	676
675	89	94	92	88	675
674	89	93	92	88	674
673	89	93	92	87	673
672	88	93	91	87	672
671	88	93	91	87	671
670	88	92	91	87	670
669	87	92	90	86	669
668	87	92	90	86	668
667	86	92	90	86	667
666	86	91	90	86	666

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
665	85	91	89	85	665
664	85	91	89	85	664
663	84	90	89	85	663
662	84	90	88	85	662
661	83	90	88	84	661
660	83	89	88	84	660
659	82	89	87	84	659
658	82	89	86	83	658
657	81	88	86	83	657
656	81	88	86	83	656
655	81	87	85	82	655
654	81	87	85	82	654
653	80	87	85	82	653
652	80	86	84	81	652
651	80	86	83	81	651
650	79	85	83	81	650
649	79	85	83	80	649
648	78	84	82	80	648
647	77	84	81	80	647
646	76	83	81	79	646
645	75	83	80	79	645
644	75	82	80	79	644
643	74	82	79	78	643
642	73	81	79	78	642
641	73	81	78	77	641
640	72	81	78	77	640
639	72	80	77	77	639
638	71	80	77	76	638
637	71	79	76	76	637
636	70	79	76	76	636
635	70	78	75	75	635
634	69	78	74	75	634
633	69	77	74	75	633
632	68	77	73	74	632
631	68	76	73	74	631
630	68	76	72	73	630
629	67	75	71	73	629
628	66	74	71	72	628
627	66	74	70	72	627
626	65	73	70	72	626
625	65	73	69	71	625
624	64	72	68	71	624
623	64	72	68	70	623
622	63	71	67	70	622
621	62	70	66	70	621

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
<b>620</b>	61	70	66	69	<b>620</b>
<b>619</b>	60	69	65	69	<b>619</b>
<b>618</b>	59	69	65	68	<b>618</b>
<b>617</b>	59	68	64	68	<b>617</b>
<b>616</b>	58	68	63	68	<b>616</b>
<b>615</b>	57	67	63	67	<b>615</b>
<b>614</b>	56	66	62	67	<b>614</b>
<b>613</b>	56	66	61	66	<b>613</b>
<b>612</b>	55	65	61	66	<b>612</b>
<b>611</b>	54	64	60	65	<b>611</b>
<b>610</b>	54	64	59	65	<b>610</b>
<b>609</b>	53	63	59	64	<b>609</b>
<b>608</b>	52	63	58	64	<b>608</b>
<b>607</b>	52	62	57	63	<b>607</b>
<b>606</b>	51	61	57	63	<b>606</b>
<b>605</b>	51	61	56	62	<b>605</b>
<b>604</b>	50	60	56	62	<b>604</b>
<b>603</b>	50	60	55	61	<b>603</b>
<b>602</b>	49	59	54	61	<b>602</b>
<b>601</b>	49	59	54	60	<b>601</b>
<b>600</b>	48	58	53	60	<b>600</b>
<b>599</b>	48	58	52	59	<b>599</b>
<b>598</b>	47	57	52	59	<b>598</b>
<b>597</b>	47	57	51	58	<b>597</b>
<b>596</b>	47	56	51	58	<b>596</b>
<b>595</b>	46	55	50	57	<b>595</b>
<b>594</b>	46	55	49	57	<b>594</b>
<b>593</b>	45	54	49	56	<b>593</b>
<b>592</b>	44	54	48	56	<b>592</b>
<b>591</b>	43	53	47	55	<b>591</b>
<b>590</b>	42	52	47	55	<b>590</b>
<b>589</b>	41	52	46	54	<b>589</b>
<b>588</b>	40	51	46	54	<b>588</b>
<b>587</b>	40	51	45	53	<b>587</b>
<b>586</b>	39	50	44	52	<b>586</b>
<b>585</b>	39	49	44	52	<b>585</b>
<b>584</b>	38	49	43	51	<b>584</b>
<b>583</b>	38	48	43	51	<b>583</b>
<b>582</b>	37	48	42	50	<b>582</b>
<b>581</b>	37	47	41	50	<b>581</b>
<b>580</b>	37	47	41	49	<b>580</b>
<b>579</b>	36	46	40	48	<b>579</b>
<b>578</b>	36	45	40	48	<b>578</b>
<b>577</b>	36	45	39	47	<b>577</b>
<b>576</b>	36	44	39	47	<b>576</b>

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
575	35	44	38	46	575
574	34	43	37	46	574
573	33	42	37	45	573
572	33	42	36	45	572
571	32	41	36	44	571
570	31	41	35	44	570
569	30	40	35	43	569
568	30	40	34	43	568
567	29	39	34	42	567
566	28	39	33	41	566
565	28	38	33	41	565
564	28	38	32	40	564
563	27	37	32	40	563
562	27	37	31	39	562
561	27	37	31	39	561
560	26	36	30	38	560
559	26	36	30	37	559
558	25	35	29	37	558
557	25	35	29	36	557
556	25	34	28	35	556
555	24	34	28	34	555
554	24	33	27	34	554
553	24	33	27	33	553
552	23	32	26	33	552
551	23	32	26	32	551
550	23	31	26	31	550
549	22	31	25	31	549
548	22	30	25	30	548
547	22	30	24	29	547
546	22	29	24	29	546
545	21	29	23	28	545
544	21	28	23	28	544
543	21	28	23	27	543
542	20	27	22	26	542
541	20	27	22	26	541
540	20	27	21	25	540
539	19	26	21	24	539
538	18	26	21	24	538
537	18	25	20	23	537
536	17	25	20	22	536
535	17	24	20	22	535
534	16	24	19	21	534
533	16	24	19	20	533
532	16	23	18	19	532
531	15	23	18	18	531

**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
530	15	23	18	18	530
529	15	22	17	17	529
528	15	22	17	16	528
527	14	22	17	16	527
526	14	21	16	15	526
525	14	21	16	14	525
524	13	21	16	14	524
523	13	20	15	13	523
522	13	20	15	12	522
521	13	19	14	12	521
520	12	19	14	11	520
519	12	19	14	10	519
518	12	18	13	9	518
517	11	18	13	9	517
516	11	18	13	8	516
515	10	17	13	7	515
514	10	17	12	7	514
513	9	17	12	6	513
512	9	16	12	6	512
511	9	16	11	5	511
510	8	16	11	5	510
509	8	15	11	4	509
508	8	15	10	4	508
507	8	15	10	3	507
506	8	15	10	3	506
505	7	14	9	3	505
504	7	14	9	2	504
503	7	14	9	2	503
502	7	13	8	2	502
501	6	13	8	1	501
500	6	13	8	1	500
499	5	13	7	1	499
498	5	12	7	1	498
497	4	12	7	1	497
496	4	12	6	1	496
495	4	12	6	1	495
494	3	11	6	1	494
493	3	11	6	1	493
492	3	11	5	1	492
491	3	10	5	1	491
490	3	10	4	1	490
489	3	10	4	1	489
488	2	9	4	1	488
487	2	9	3	1	487
486	2	9	3	1	486



**Table 9: Grade 11 – Spring 2024 Scale Score to Iowa Percentile Rank (continued)**

<b>Scale Score</b>	<b>Reading</b>	<b>Language / Writing</b>	<b>ELA</b>	<b>Mathematics</b>	<b>Scale Score</b>
485	2	8	3	1	485
484	2	8	2	1	484
483	2	8	2	1	483
482	2	7	2	1	482
481	1	7	2	1	481
480	1	6	1	1	480
479	1	6	1	1	479
478	1	6	1	1	478
477	1	5	1	1	477
476	1	5	1	1	476
475	1	5	1	1	475
474	1	4	1	1	474
473	1	4	1	1	473
472	1	4	1	1	472
471	1	3	1	1	471
470	1	3	1	1	470
469	1	3	1	1	469
468	1	2	1	1	468
467	1	1	1	1	467
466	1	1	1	1	466
465	1	1	1	1	465
464	1	1	1	1	464
463	1	1	1	1	463
462	1	1	1	1	462
461	1	1	1	1	461
460	1	1	1	1	460