# Grade 5 Achievement Level Descriptors

## Nebraska Math Alternate Assessment

| Developing | On Track | College and Career Ready Benchmark |
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| Developing learners do not yet demonstrate proficiency in the knowledge and skills necessary at this grade level, as specified in the assessed Nebraska College and Career Ready Standards. These results provide evidence that the student may need additional support for academic success at the next grade level. | On Track learners demonstrate proficiency in the knowledge and skills necessary at this grade level, as specified in the assessed Nebraska College and Career Ready Standards. These results provide evidence that the student will likely be ready for academic success at the next grade level. | College and Career Ready Benchmark learners demonstrate advanced proficiency in the knowledge and skills necessary at this grade level, as specified in the assessed Nebraska College and Career Ready Standards. These results provide evidence that the student will likely be ready for academic success at the next grade level. |
| **Students at this level**<br><br>• Recognize whole numbers up to 200.<br><br>• Compare whole numbers up to 200 using the phrases "less than," "greater than," or "equal to."<br><br>• Round whole numbers up to 100 to the nearest tens place, using a number line.<br><br>• Identify equivalent fractions between fourths, halves, and one whole using models. | **Students at this level**<br><br>• Identify representations of whole numbers up to 200.<br><br>• Compare and order whole numbers up to 200 using symbols <, >, and =.<br><br>• Round whole numbers up to 200 to the nearest tens place.<br><br>• Identify equivalent fractions between thirds, fourths, halves, and one whole using models. | **Students at this level**<br><br>• Represent whole numbers up to 200.<br><br>• Demonstrate an understanding of comparing and ordering whole numbers up to 200 using symbols <, >, and =.<br><br>• Round whole numbers up to 200 to the nearest tens place in the context of estimation.<br><br>• Identify equivalent fractions between thirds, fourths, halves, and one whole. |

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| • Multiply a two-digit number by zero or one. | • Multiply a two-digit number by a single-digit number. | • Multiply a two-digit number by a single-digit number in real-world problems. |
| • Divide a two-digit whole number (up to 20) by a single-digit number, with no remainder. | • Divide a two-digit whole number by a single-digit number, with no remainder. | • Divide a two-digit whole number by a single-digit number, with no remainder, in real-world problems. |
| • Multiply 1/2 or 1/4 by 2 and 4 using visual models. | • Multiply 1/3, 1/2, or 1/4 by 2, 3, and 4. | • Multiply 1/3, 1/2, or 1/4 by 2, 3, and 4 in real-world problems. |
| • Recognize a visual model showing division of a whole number, 1-10, by 1/2 or 1/4. | • Divide a whole number by 1/3, 1/2, or 1/4 using a visual model (e.g., 3 divided by one-half). | • Divide a whole number by 1/3, 1/2, or 1/4. |
| • Add or subtract fractions with like denominators (limited to 2, 4, or 8) using a visual model, without regrouping. | • Add and subtract fractions with like denominators using a visual model, without regrouping. | • Add and subtract fractions with like denominators. |
| • Multiply a one-digit whole number by 10. | • Multiply a one-digit whole number by 100. | • Demonstrate an understanding of multiplying a one-digit whole number by 100. |
| • Identify the location of a whole-number point on a number line. | • Identify the location of ordered pairs on a coordinate plane (1st quadrant). | • Graph an ordered pair on a coordinate plane (1st quadrant) when given an ordered pair. |
| • Solve a numerical expression with addition and subtraction using whole numbers 1-9. | • Solve a numerical expression with addition or subtraction and multiplication, 1–5. | • Solve a numerical expression with addition or subtraction and multiplication using whole numbers 1-5 in real-world problems. |

- Identify the solution to a simple real-world problem with addition of fractions, without regrouping, involving halves, thirds, and fourths.

- Recognize three-dimensional models, limited to cube, cylinder, and cone.

- Recognize a face, edge, or vertex of a cube.

- Identify a shape when given the number of sides or angles, limited to triangles and squares.

- Recognize the *x*- or *y*-coordinate of whole-number points in quadrant I.

- Recognize that the volume of a rectangular prism is determined by counting its unit cubes.

- Recognize 12 inches is equal to 1 foot using a model.

- Recognize the value of a bar in a bar graph.

- Solve real-world problems with addition or subtraction of fractions limited to like denominators, without regrouping, involving halves, thirds, and fourths.

- Identify three-dimensional models, limited to cube, cylinder, and cone.

- Identify the faces, edges, and vertices of a cube.

- Sort triangles, rectangles, and squares by number of sides and/or angles.

- Identify the *x*- or *y*-coordinate of whole-number points in quadrant I.

- Find the volume of a rectangular prism by counting unit cubes.

- Convert whole numbers of feet to inches using a model.

- Interpret information in a bar graph using at least two data points.

- Demonstrate an understanding of solving real-world problems with addition or subtraction of fractions limited to like denominators, without regrouping, involving halves, thirds, and fourths.

- Identify three-dimensional models, limited to cube, cylinder, and cone based on their properties.

- Count the numbers of faces, edges, and vertices of a cube.

- Compare the numbers of sides and/or angles in triangles, rectangles, and squares.

- Identify the *x*- and *y*-coordinates of whole-numbere points in quadrant I.

- Identify a rectangular prism with a given volume.

- Convert whole numbers of feet to inches.

- Compare information in a bar graph using at least two data points.

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| • Identify an expression or equation that can be used to solve an addition problem with whole numbers using information from a bar graph. | • Solve a problem with addition or subtraction of whole numbers using information from a bar graph. | • Demonstrate an understanding of solving a problem with addition and subtraction of whole numbers using information from a bar graph. |