

**Grade 6 Achievement Level Descriptors**  
**Nebraska Math Alternate Assessment**

<b>Developing</b>	<b>On Track</b>	<b>College and Career Ready Benchmark</b>
<p>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.</p>	<p>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.</p>	<p>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.</p>
<p><b>Students at this level</b></p> <ul style="list-style-type: none"> <li>• Recognize the common factors of 4 and 6, 6 and 9, and 8 and 10 when given the factors of both numbers.</li> <li>• Identify representations of 10, 100, or 1,000 as multiples of 10.</li> <li>• Compare or order halves and fourths of whole numbers 0–1 on a number line.</li> <li>• Identify the decimal equivalent of halves, fourths, and tenths using a model.</li> </ul>	<p><b>Students at this level</b></p> <ul style="list-style-type: none"> <li>• Identify the common factors of 4 and 6, 6 and 9, and 8 and 10 when given the factors of both numbers.</li> <li>• Represent 10, 100, 1,000, or 10,000 as a power of 10.</li> <li>• Compare and order halves, fourths, and tenths of whole numbers 0–1 on a number line.</li> <li>• Convert halves, fourths, and tenths to decimals using a model.</li> </ul>	<p><b>Students at this level</b></p> <ul style="list-style-type: none"> <li>• Represent the common factors of 4 and 6, 6 and 9, and 8 and 10.</li> <li>• Translate between 10, 100, 1,000, or 10,000 and their representations as powers of 10.</li> <li>• Compare and order halves, fourths, and tenths of whole numbers 0–1 on a number line in real-world problems.</li> <li>• Convert decimals to halves, fourths, and tenths using a model.</li> </ul>

<ul style="list-style-type: none"> <li>• Identify models of integers (-5 to 5) using a number line.</li> <li>• Compare and order integers (-5 to 5) on a number line.</li> <li>• Identify the absolute value of an integer, -5 to 5.</li> <li>• Multiply and divide positive fractions, halves and fourths using a model.</li> <li>• Divide a two-digit number by a one-digit number, limited to single digit quotients, with a remainder.</li> <li>• Add and subtract numbers 0–10 with one decimal place, without regrouping, using a visual model.</li> <li>• Identify the closest whole number to a decimal number with tenths.</li> <li>• Identify the output when given the input and the rule for an input/output box.</li> <li>• Recognize simple models of whole-number expressions using the distributive property, limited to numbers 1-3.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify models of integers (-10 to 10) using a number line.</li> <li>• Compare and order integers (-10 to 10) on a number line.</li> <li>• Identify the absolute value of an integer, -10 to 10.</li> <li>• Multiply and divide positive fractions, halves, fourths, thirds, and tenths using a model.</li> <li>• Divide a two-digit number by a one-digit number, with a remainder.</li> <li>• Add and subtract numbers 0–10 with one decimal place, without regrouping.</li> <li>• Estimate the sum of two decimal numbers with tenths (e.g., <math>5.2 + 3.7</math> is about 9).</li> <li>• Match a simple word phrase with an input/output box.</li> <li>• Identify whole-number expressions using the distributive property (e.g., <math>2(3 + 4)</math>).</li> </ul>	<ul style="list-style-type: none"> <li>• Represent integers (-10 to 10) using a number line.</li> <li>• Compare and order integers (-10 to 10) on a number line when given multiple groups of integers.</li> <li>• Determine the absolute value of an integer, -10 to 10.</li> <li>• Represent a model of multiplication and division of positive fractions, halves, fourths, thirds, and tenths.</li> <li>• Divide a two-digit number by a one-digit number, with a remainder, in real-world problems.</li> <li>• Add and subtract numbers 0–10 with one decimal place, without regrouping, in real-world problems.</li> <li>• Estimate the sum of two decimal numbers with tenths in real-world problems.</li> <li>• Represent an input/output box with a simple word phrase.</li> <li>• Represent equivalent whole-number expressions using the distributive property (e.g., <math>2 \times 3 + 2 \times 4 = 2(3 + 4)</math>).</li> </ul>
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<ul style="list-style-type: none"> <li>• Recognize the final answer when using order of operations involving addition, subtraction, and multiplication.</li> <li>• Identify the solution to a one-step equation using addition or subtraction.</li> <li>• Identify the last number in a table of consecutive values with a ratio of 1:2 or 1:3.</li> <li>• Identify an integer greater than or less than a given integer (-5 to 5) on a number line.</li> <li>• Identify the solution to a real-world problem with addition of decimal numbers to the hundredths, without regrouping.</li> <li>• Identify the solution to a real-world problem using a ratio up to 1:3.</li> <li>• Recognize a two-dimensional representation (net) of a cube, cylinder, or cone.</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate an understanding of order of operations involving addition, subtraction, and multiplication.</li> <li>• Solve a one-step equation using addition and subtraction.</li> <li>• Identify the missing number in a table with a ratio of 1:2, 1:3, or 1:10.</li> <li>• Identify a solution to an inequality on a number line (-10 to 10).</li> <li>• Solve real-world problems with addition and subtraction of decimal numbers to the hundredths, without regrouping.</li> <li>• Solve real-world problems using a ratio up to 1:3.</li> <li>• Identify a cube, cylinder, or cone from a given two-dimensional representation (net).</li> </ul>	<ul style="list-style-type: none"> <li>• Solve expressions involving addition, subtraction, and multiplication using order of operations.</li> <li>• Solve a one-step equation using addition and subtraction in real-world problems.</li> <li>• Identify a table of values with a ratio of 1:2, 1:3, or 1:10 in real-world problems.</li> <li>• Represent all solutions to an inequality on a number line (-10 to 10).</li> <li>• Demonstrate an understanding of setting up and solving real-world problems with addition and subtraction of decimal numbers to the hundredths, without regrouping.</li> <li>• Demonstrate an understanding of setting up and solving real-world problems using a ratio up to 1:3.</li> <li>• Identify a cube, cylinder, or cone from a two-dimensional representation (net) using real-world objects.</li> </ul>
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<ul style="list-style-type: none"> <li>• Recognize a point graphed in quadrant I.</li> <li>• Recognize the location of a vertex of a triangle in quadrant I with other vertices on the origin and the x- or y-axis.</li> <li>• Recognize the area of a rectangle using its whole-number side lengths.</li> <li>• Recognize the surface area of a rectangular prism by counting unit squares in a net.</li> <li>• Recognize the volume of a rectangular prism.</li> <li>• Recognize a histogram.</li> <li>• Identify a feature of a histogram, such as a label.</li> <li>• Recognize the mode of a set of ordered whole-number data.</li> </ul>	<ul style="list-style-type: none"> <li>• Identify a point on a 4-by-4 grid in quadrant I.</li> <li>• Identify the location of one vertex of a triangle in quadrant I with one vertex on the origin.</li> <li>• Find the area of a rectangle using its whole-number side lengths.</li> <li>• Find the surface area of a rectangular prism by counting unit squares in a net.</li> <li>• Find the volume of a rectangular prism using the volume formula.</li> <li>• Interpret a histogram that matches a data set.</li> <li>• Solve basic problems using histograms (e.g., How many times did Sara knock down 9 pins? How many more students have 1 pet than have 2 pets?).</li> <li>• Find the mode of a set of ordered whole-number data.</li> </ul>	<ul style="list-style-type: none"> <li>• Determine the coordinates of a point graphed in a given 4-by-4 grid in quadrant I.</li> <li>• Graph the given coordinates of one vertex of a triangle in quadrant I with one vertex on the origin.</li> <li>• Identify the missing whole-number side length of a rectangle with a given area.</li> <li>• Match a rectangular prism to its net when given the surface area of a prism.</li> <li>• Identify the missing dimension of a rectangular prism when given the volume of the prism.</li> <li>• Complete a histogram that matches a data set.</li> <li>• Solve addition or subtraction problems using three intervals in a histogram.</li> <li>• Determine a data set when given the mode.</li> </ul>
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- Recognize the median of a set of ordered whole-number data.

- Find the median of a set of ordered whole-number data.

- Determine the ordered whole-number data set that corresponds to a given median.