

4th Grade Math Rubric

STANDARD	EXCEEDS	PROFICIENT	DEVELOPING	NEEDS IMPROVEMENT
Selects and applies a strategy to solve problems	Selects and applies an efficient strategy to solve problems accurately and can explain the problem solving process	Selects and applies an appropriate strategy to solve a problem	Selects and applies a strategy to solve a problem with teacher or peer prompting	Does not demonstrate understanding
Uses variables to represent unknown quantities	Knows when it is appropriate to use variables to represent unknown quantities and demonstrates the ability to use variables	Uses variables to represent unknown quantities	Uses variables to represent unknown quantities with teacher or peer prompting	Does not demonstrate understanding
Generates and analyzes patterns	Independently generates and analyzes patterns	Generates and analyzes patterns using the strategies demonstrated by the teacher	Generates and analyzes patterns with teacher or peer prompting	Does not demonstrate understanding
Reads, writes, and compares multi-digit numbers	Independently reads, writes, and compares multi-digit numbers	Reads, writes, and compares multi-digit numbers using the strategies demonstrated by the teacher	Reads, writes, and compares multi-digit numbers with teacher or peer prompting	Does not demonstrate understanding

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Rounds and estimates multi-digit numbers	Independently rounds and estimates multi-digit numbers	Rounds and estimates multi-digit numbers using the strategies demonstrated by the teacher	Rounds and estimates multi-digit numbers with teacher or peer prompting	Does not demonstrate understanding
Adds multi-digit numbers, with and without regrouping	Independently adds multi-digit numbers, with and without regrouping	Adds multi-digit numbers, with and without regrouping, using the strategies demonstrated by the teacher	Adds multi-digit numbers, with and without regrouping, with teacher or peer prompting	Does not demonstrate understanding
Subtracts multi-digit numbers, with and without regrouping	Independently subtracts multi-digit numbers, with and without regrouping	Subtracts multi-digit numbers, with and without regrouping, using the strategies demonstrated by the teacher	Subtracts multi-digit numbers, with and without regrouping, with teacher or peer prompting	Does not demonstrate understanding
Multiplies multi-digit numbers	Independently multiplies multi-digit numbers	Multiplies multi-digit numbers using the strategies demonstrated by the teacher	Multiplies multi-digit numbers with teacher or peer prompting	Does not demonstrate understanding

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Divides up to a four-digit number by a one-digit divisor	Independently divides up to a four-digit number by a one-digit divisor	Divides up to a four-digit number by a one-digit divisor using the strategies demonstrated by the teacher	Divides up to a four-digit number by a one-digit divisor with teacher or peer prompting	Does not demonstrate understanding
Identifies, orders, and compares fractions	Independently identifies, orders, and compares fractions	Identifies, orders, and compares fractions using the strategies demonstrated by the teacher	Identifies, orders, and compares fractions with teacher or peer prompting	Does not demonstrate understanding
Adds and subtracts fractions	Independently and fluently adds and subtracts fractions	Adds and subtracts fractions using the strategies demonstrated by the teacher	Adds and subtracts fractions with teacher or peer prompting	Does not demonstrate understanding
Identifies, orders, and compares decimals	Independently identifies, orders, and compares decimals	Identifies, orders, and compares decimals using the strategies demonstrated by the teacher	Identifies, orders, and compares decimals with teacher or peer prompting	Does not demonstrate understanding

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Adds and subtracts decimals	Independently and fluently adds and subtracts decimals	Adds and subtracts decimals using the strategies demonstrated by the teacher	Adds and subtracts decimals with teacher or peer prompting	Does not demonstrate understanding
Finds area and perimeter of geometric shapes	Independently finds area and perimeter of geometric shapes and can articulate the process used	Finds area and perimeter of geometric shapes using the strategies demonstrated by the teacher	Finds area and perimeter of geometric shapes with teacher or peer prompting	Does not demonstrate understanding
Represents and interprets data by using minimum, maximum, range, mode, median	Independently represents and interprets data by using minimum, maximum, range, mode, and median	Represents and interprets data by using minimum, maximum, range, mode, and median using the strategies demonstrated by the teacher	Represents and interprets data by using minimum, maximum, range, mode, and median with teacher or peer prompting	Does not demonstrate understanding
Measures and draws lines, segments, rays, and angles	Independently measures and draws lines, segments, rays, and angles	Measures and draws, lines, segments, rays, and angles using the strategies demonstrated by the teacher	Measures and draws lines, segments, rays, and angles with teacher or peer prompting	Does not demonstrate understanding

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Classifies two-dimensional figures based on their attributes	Independently classifies two-dimensional figures based on their attributes—can compare and contrast the figures	Classifies two-dimensional figures based on their attributes using the strategies demonstrated by the teacher	Classifies two-dimensional figures based on their attributes with teacher or peer prompting	Does not demonstrate understanding
Identifies and draws lines of symmetry	Independently identifies and draws lines of symmetry—can explain why the lines are symmetrical	Identifies and draws lines of symmetry using strategies demonstrated by the teacher	Identifies and draws lines of symmetry with teacher or peer prompting	Does not demonstrate understanding