

Data

Math mastery benchmarks from PBS Progress Reports

Percentage indicates the share of students achieving or exceeding benchmark for each criterion.

4TH-GRADE: OPERATIONS AND ALGEBRAIC THINKING

Criterion	2018	2017
Solves multi-step problems using addition, subtraction, multiplication, and division	94.7%	82.9%
Identifies factors, prime, and composite numbers	97.4%	65.9%
Generates and analyzes complex patterns using words, tables, and graphs	100%	100%

4TH-GRADE: NUMBERS AND OPERATIONS: BASE 10

Criterion	2018	2017
Demonstrates understanding of place value in multi-digit whole numbers	97.4%	92.7%
Fluently adds and subtracts multi-digit whole numbers	92.1%	100%

4TH-GRADE: NUMBERS AND OPERATIONS: FRACTIONS

Criterion	2018	2017
Explains and compares fractions using pictures and a variety of other strategies	89.5%	90.2%
Adds and subtracts simple fractions	100%	90.2%
Understands decimal notation for fractions and compares decimals and fractions	89.5%	82.9%

4TH-GRADE: MEASUREMENT AND DATA

Criterion	2018	2017
Converts measurements from larger to smaller units while problem-solving	89.5%	92.7%
Organizes, sorts, represents, and interprets data	100%	100%
Determines elapsed time	100%	87.8%

4TH-GRADE: GEOMETRY

Criterion	2018	2017
Distinguishes, builds, and draws shapes given their attributes	97.4%	100%
Identifies and classifies shapes using properties or line and angles	97.4%	100%

4TH-GRADE: APPROACH TO PROBLEM-SOLVING

Criterion	2018	2017
Uses tools and manipulatives to effectively solve challenges	100%	N/A
Makes connections to prior learning and real world applications	100%	N/A
Solves problems flexibly, efficiently, and in multiple ways	97.4%	N/A

5TH-GRADE: OPERATIONS AND ALGEBRAIC THINKING

Criterion	2018	2017
Creates and interprets a variety of numerical expressions	97.6%	97.0%
Analyzes complex patterns	97.6%	100%
Applies order of operations to solve problems	100%	93.9%

5TH-GRADE: NUMBERS AND OPERATIONS: BASE 10

Criterion	2018	2017
Understands the place-value system	100%	97.0%
Rounds and compares decimals	100%	97.0%
Adds, subtracts, multiplies, and divides decimals to the hundredths place	97.6%	93.9%

5TH-GRADE: NUMBERS AND OPERATIONS: FRACTIONS

Criterion	2018	2017
Fluently adds and subtracts fractions using equivalent fractions	100%	97.0%
Extends previous understanding to multiply and divide fractions	100%	93.9%

5TH-GRADE: MEASUREMENT AND DATA

Criterion	2018	2017
Reads, represents, and interprets data in a variety of ways, including circle and line	97.6%	100%
Understands how volume relates to multiplication and division	97.6%	100%
Finds mode, median, mean, and range of data set	95.1%	100%

5TH-GRADE: GEOMETRY

Criterion	2018	2017
Graphs points on a coordinate plane	100%	100%
Classifies two-dimensional figures by their properties	97.6%	100%

5TH-GRADE: APPROACH TO PROBLEM-SOLVING

Criterion	2018	2017
Uses tools and manipulatives to effectively solve challenges	97.6%	N/A
Makes connections to prior learning and real world applications	100%	N/A
Solves problems flexibly, efficiently, and in multiple ways	95.1%	N/A