Unit 13 Key Assessment Opportunities Chart

Taken from *Math Trailblazers* digital Teacher Guide

Content

Key Ideas in Unit 13

Unit 13 Expectations

Code	Expectation	L1 SAB Break Apart and Multiply Check-In: Q# 4–5**	L2 SAB Roberto's Charts Check-In: Q# 5**	L3 SAB Solving Problems Mara's Way Check-In: Q# 3–8**	L4 SG Solving Problems with Multiplication and Division Check-In: Q# 13–17**	L5 TG Earning Money Problem**	L6 SAB Soup for Lunch	L7 SAB Converting Standard Units of Volume Check-In: Q# 9–10	L7 SG Measuring Volume of Containders Check-In: Q# 7–8	L8 SAB Fill It Up Lab**	L9 SAB Yolanda Measures Volume by Displacement**	L10 TG End-of-Year Test**
Number 2	**Operations: Understand the meaning of numerical operations and their application for solving problems.**											
E1*	Represent 2-digit by 1-digit multiplication and multidigit division problems using counters, tiles, rectangular arrays, drawings, stories, and number sentences. (Algebra 3) [3.OA.3, 7; 4.NBT.5, 6] [MP 1, 2, 5]	×	×	×	×	×						
E2	Show connections between models and strategies for multiplication (e.g., demonstrate partial products using a rectangle model for multiplication). (Algebra 3) [3.OA.3, 5, 7; 4.NBT.5] [MP 1, 2, 7]	×	×	×								
E3	Solve multidigit multiplication problems using mental math strategies (e.g., composing and decomposing numbers, and doubling and halving). (Algebra 4) [3.OA.3, 7; 4.NBT.5] [MP 1, 2]	×	×	×	×		×					
E4	Solve multidigit division problems using mental math strategies (e.g., thinking multiplication, repeated subtraction, using turn-around facts). (Algebra 4) [3.OA.3, 7; 4.NBT.6] [MP 1, 2]					×	×					
E5	Multiply one-digit whole numbers by multiples of ten. [3.NBT.3] [MP 7]	×	×	×			×					
E6	Interpret remainders of multidigit division problems. [3.OA.7; 4.OA.4] [MP 2, 5]				×	×					×	
Number 3	**Computation and Estimation: Use efficient and flexible predecures to compute accurately and make reasonable estimates.**											
E7	Solve multiplication problems by breaking products into the sum of simpler products (applying the distributive property of multiplication over addition) using a rectangle model and paper-and-pencil methods (e.g., all partials). (Algebra 3) [3.OA.3, 7; 3.NBT.3; 4.NBT.5] [MP1, 2]	×	×	×								
E8	Solve multistep word problems involving the four operations. [3.OA.8] [MP1, 2, 6]				×	×	×				×	
Measurement 1	**Measurement Concepts: Understand measurable attributes of objects or situations (length, area, mass, volume, size, time) and the units, systems, and processes of measurement.**											
E9	Use the relationship between larger and smaller units of measure to solve problems. [4.MD.1] [MP 1, 5, 6]							×	×		×	
Measurement 2	**Measurement Skills: Use measurement tools, appropriate techniques, and formulas to determine measurements.**											
E10	Measure volume to the nearest cubic centimeter using a graduated cylinder (e.g., through displacement, by filling container). [3.MD.2] [MP 1, 4, 5]								×	×	×	
E11*	Estimate volume by counting cubic centimeters. [3.MD.2] [MP 1, 4, 5]									×	×	
Data 3	**Data Description: Describe a data set by interpreting graphs, identifying patterns, and using statistical measures, e.g., average and range.**											
E12	Find the median of a data set. [6.SP.5] [MP 1, 2, 4]									×		
Data 4	**Using Data: Apply relationships and patterns in data to solve problems, develop generalizations, and make predictions.**											
E13	Make predictions and solve problems using patterns in data represented in data tables and bar graphs. (Algebra 4) [MP 1, 4, 5, 7]									×		

Note: "See Lesson Guide" appears in the L10 (TG End-of-Year Test) column.

* Denotes Benchmark Expectation

Math Facts

	SAB *Break Apart and Multiply* Check-In: Q# 4–5** L1	TG DPP Item A *Triangle Flash Cards: Last Six Facts* L1	TG *Home Practice* Part 1 *Triangle Flash Cards: Review All Facts* L2	TG DPP Item S *Multiplication Fact Families: Last Six Facts* L6	TG DPP Item AA *Multiplication Quiz: Last Six Facts* L8	TG DPP Item EE *Multiplication Facts Inventory Test* L9
Number 3 Computation and Estimation: Use efficient and flexible procedures to compute accurately and make reasonable estimates.						
E14* Demonstrate fluency with the multiplication facts for the last six facts (4 × 6, 4 × 7, 4 × 8, 6 × 7, 6 × 8, 7 × 8). [3.OA.1, 3.OA.7]	✕	✕		✕	✕	
E15* Determine the unknown number in a multiplication or division sentence relating three whole numbers for the last six facts (4 × 6, 4 × 7, 4 × 8, 6 × 7, 6 × 8, 7 × 8). (Algebra 3) [3.OA.7]				✕		
E16* Demonstrate fluency with all the multiplication facts. [3.OA.7]			✕			✕

Math Practices

	SAB *Roberto's Charts* Check-In: Q# 5** L2	SAB *Solving Problems Mara's Way* Check-In: Q# 3–8*** L3	SG *Solving Problems with Multiplication and Division* Check-In: Q# 13–17** L4	TG *Earning Money Problem** L5	SAB *Yolanda Measures Volume by Displacement* L9
MPE1 **Know the problem.** I read the problem carefully. I know the questions to answer and what information is important. [MP1, 4]			✕	✕	
MPE2 **Find a strategy.** I choose good tools and an efficient strategy for solving the problem. [MP4, 5]	✕		✕	✕	✕
MPE3 **Check for reasonableness.** I look back at my solution to see if my answer makes sense. If it does not, I try again. [MP2, 6]		✕		✕	
MPE4 **Check my calculations.** If I make mistakes, I correct them. [MP 2, 4, 6]				✕	
MPE5 **Show my work.** I show or tell how I arrived at my answer so someone else can understand my thinking. [MP3, 6]	✕		✕	✕	✕
MPE6 **Use labels.** I use labels to show what numbers mean. [MP6]			✕	✕	✕

* Denotes Benchmark Expectation

** Includes Feedback Box