

EBR ASSESSMENT GUIDE: MATH: GRADES 3-5

	Major Content	Additional Supporting Content	Expressing Mathematical Reasoning	Modeling & Application
Breakdown	49%	16%	16%	19%
Question Type	Type I 65% [Conceptual Understanding, Fluency, and Application]		Type II 16 [Written Arguments/Justifications, Critique of Reasoning, or Precision in Mathematical Statements]	Type III 19% [Modeling/Application in a Real World Context or Scenario]
3rd Grade	<u>Products and Quotients:</u> [3.OA.1,2,4,6,7] <u>Solve Problems with Operations:</u> [3.OA.3,8] <u>Fractions as Numbers and Equivalence:</u> [3.NF.1,2] <u>Solve Time, Area, Measurement, & Estimation Problems:</u> [3.MD.1,2,5,6,7]	<u>Multi-digit Arithmetic:</u> [3.NBT.2,3] <u>Graphs and Data:</u> [3.MD.3,4] <u>Perimeter & Area:</u> [3.G.2, 3.MD.8] <u>Shapes & Money:</u> [3.G.1, 3.MD.9]	<u>Properties of Multiplication, Division, and Area:</u> [3.OA.5,6,9, 3.MD.7a,7b,7c] <u>Demonstrate Understanding of Diagrams:</u> [3.NF.3b,3d; 3.MD.5,6,7a,7b,7c] <u>Distinguish & Provide Correct Reasoning:</u> [3.OA.5,6,8,9; 3.NF.3b,3d; 3.MD.7a,7b,7c] <u>Present Solutions to Multistep Problems:</u> [3.OA.8, 3.MD.7b] <u>Explanations/Reasoning on a Number Line:</u> [3.NF.2, 3.MD.1]	Solve Multi-Step Contextual Word Problems with degree of difficulty appropriate to Grade 3, requiring Application of Knowledge and Skills articulated by the Major Content Standards & in 2.OA.A, 2.OA.B, 2.NBT, and/or 2.MD.B.
4th Grade	<u>Compare and Solve Fractions/Decimals:</u> [4.NF.1,2,5,6,7; 4.NF.3,4] <u>Multi-Step Problems:</u> [4.OA.3, 4.NBT.5,6] <u>Multiplication Comparison:</u> [4.OA.1,2] <u>Place Value & Addition/Subtraction:</u> [4.NBT.1,2,3,4]	<u>Operations & Factors:</u> [4.OA.4] <u>Measurement & Conversion:</u> [4.MD.1,2,3] <u>Lines, Angles, & Shapes:</u> [4.G.1,2,3] <u>Generate & Analyze Patterns:</u> [4.OA.5]	<u>Properties of Multiplication & Division:</u> [4.NBT.5,6] <u>Place Value Reasoning:</u> [4.NBT.1,2,3] <u>Demonstrate Understanding of Diagrams & Number Lines:</u> [4.NF.1,2,3a,3b,4a,4b,5,6,7] <u>Distinguish and Provide Correct Reasoning:</u> [3.OA.6, 3.NF.1,2,3; 3.MD.5,6,7; 4.OA.3, 4.NF.1,2,3,4,5,6,7] <u>Present Solutions to Multi-Step Problems:</u> [4.OA.3, 4.NF.3c,3d,4c]	Solve Multi-Step Contextual Word Problems with degree of difficulty appropriate to Grade 4, requiring Application of Knowledge and Skills articulated by the Major Content Standards & in 3.OA.A, 3.OA.D.8, 3.NBT, and/or 3.MD.
5th Grade	<u>Operations with Decimals:</u> [5.NBT.3,4,7] <u>Fraction Problems:</u> [5.NF.1,2,3,4a,4b,6,7] <u>Products and Quotients:</u> [5.NBT.5,5a,6] <u>Recognize, Represent, and Determine:</u> [5.MD.3,4,5b,5c] <u>Place Value:</u> [5.NBT.1,2]	<u>Interpret Numerical Expression:</u> [5.OA.1,2] <u>Coordinate Plane & 2-D Figures:</u> [5.G.1,2,3,4; 5.OA.3] <u>Units and Conversion:</u> [5.MD.1] <u>Data Displays:</u> [5.MD.2]	<u>Properties of Multiplication/Division & Place Value:</u> [5.NBT.6,7; 5.MD.5a] <u>Connections: Multiplication/Division & Addition/Subtraction:</u> [5.NBT.6,7; 5.NF.3,4a,7] <u>Place Value Reasoning:</u> [5.NBT.1,2,3,4] <u>Distinguish and Provide Correct Reasoning:</u> [4.NBT.1,2,3; 4.NF.1,2,3,4; 5.NF.1,2, 5b; 5.MD.5c] <u>Demonstrate Understanding of Diagrams & Number Lines:</u> [5.NF.2,4a,4b,7a,7b; 5.NBT.6,7; 5.MD.3,4,5]	Solve Multi-Step Contextual Word Problems with degree of difficulty appropriate to Grade 5, requiring Application of Knowledge and Skills articulated by the Major Content Standards & in 4.OA, 4.NBT, 4.NF, and/or 4.MD.