

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 1

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (1.10 p. 56ff)	Games, S.L, Assessments TLG page:	Other
1a	B	<b>Find the prime factorization of numbers-</b> Computation-5.1.6, 5.2.1			p. 25 (1.9)		Written #6-7 <b>ISTEP+ T1 Pt 1 # 11-14</b>		
1b	BD	<b>Rename numbers written in exponential notation</b> Computation 5.1.1, 5.2.1			p. 24 (1.9)		Written #7-8 <b>ISTEP+ T1 Pt 1 # 11-14</b>	SL 1.9	
1c	DS	<b>Use a divisibility test to determine in a number is divisible by another number</b> Computation 5.2.1			p. 12 (1.5) p. 25 (1.9)	p. 14 (1.5) #5 p. 20 (1.7) #5 p. 26 (1.9) #5	Slate #4 Written #11-12 Written #14 <b>ISTEP+ T1 Pt 2 # 1-4</b>	SL 1.5	
1d	DS	<b>Identify prime and composite numbers</b>  Number Sense 5.1.1, 5.1.6, 5.2.1			p. 15 (1.6) p. 18 (1.7) p. 25 (1.9) #4		Slate #3 Written #4-5 Written #13-14 <b>ISTEP+ T1 Pt 1 # 11-14</b>	SL 1.6	
1e	DS	<b>Understand how square numbers and their roots are related</b> Numeration Computation	p. 46		p. 18-19 (1.9) p. 21 (1.8) p. 25 (1.9) #1		Slate #1 Written #8		
1f	S	<b>Draw arrays to model multiplication</b> Computation	p. 18 p. 23 p. 37 p. 42		p. 6 (1.2) p. 9 (1.3) p. 18 (1.7)	p. 7 (1.2) #3 p. 11 (1.4) #3	Written #1	SL 1.2 SL 1.3	
1g	S	<b>Knows basic multiplication facts</b> Computation 5.1.1, 5.1.6, 5.2.1				p. 14 (1.5) #1, 2 p. 26 (1.9) #1, 2	Written #1 Written #4 Written #8 <b>ISTEP+ T1 Pt 1 # 11-14</b>	<i>Multiplication Top-It</i>	
1h	S	<b>Identify even and odd numbers</b> Number Sense 5.2.1					Slate #3, Written #2 Written #13	SL 1.3	
1i	S	<b>Find factors of a number-Computation</b>  5.1.1, 5.1.6, 5.2.1	p. 27		p. 25	p. 17 (1.6) # 4 p. 22 (1.8) # 4	Written #3 Written #9 Written #10	<i>Factor Captor</i> <i>Factor Bingo</i> SL 1.4 SL 1.8	

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 2

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (3.11 p. 197ff)	Games, S.L, Assessments TLG page:	Other
2a	B	<b>Write and solve open sentences for number stories</b> Algebra and Functions 5.3.1	p. 75		p. 48	p. 42 #4	Slate # 1, Written # 7-10	SL 2.4	
2b	D	<b>Round numbers to designated places</b> Number sense 5.1.2					Written # 13-17		
2c	DS	<b>Make magnitude estimates</b> Numeration, Operations and Computation 5.2.6		p. 93			Slate # 2, Written # 12-17	<i>Getting to One</i> (new edition) SL 2.7 SL 2.8 SL 2.9	
2d	DS	<b>Find the product of multi-digit whole numbers and decimals</b> Computation 5.2.1		p. 120	p. 56	p. 46 #4 p. 52 #4 p. 54 #3	Slate # 3, Written # 11	<i>Beat the Calculator</i> <i>Multiplication Baseball</i> <i>Multiplication Bulls-eye</i> <i>Multiplication Wrestling</i> SL 2.8 SL 2.9	
2e	DS	<b>Find place value to billions</b> Number sense 5.1.1		p. 99		p. 35 #5 p. 46 #4 p. 54 #4	Written # 1-6	<i>Number Top-It</i> <i>High Number Toss</i>	
2f	S	<b>Find the sum and difference of whole numbers and decimals</b> Computation 5.2.5		p. 86 p. 89	p. 32 #1-8	p. 38 #4, 5 p. 49 #2, p. 52 #5 p. 57 #2	Written # 18	<i>Addition Top-It</i> <i>Subtraction Top-It</i>	
2g	S	<b>Find the maximum, minimum, median, mode, and mean for a set of data</b> Data analysis and Probability 5.6.2					Written # 19		

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 3

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (3.11 p. 197ff)	Games, S.L, Assessments TLG page:	Other
3a	D	<b>Determine angle measures based on relationships between angles</b> Geometry- 5.4.1					Written # 1-3	SL 3.3 SL 3.10 # 2, 3	
3b	DS	<b>Estimate the measure of an angle</b>					Slate # 5 Written # 8 Written # 17, 18	<i>Angle Tangle</i> SL 3.4	
3c	DS	<b>Measure an angle to within 2°</b> Geometry- 5.4.1	p. 186			p. 76 #3 p. 84 #3 p. 94 #3	Written # 4-6	<i>Angle Tangle</i> SL 3.3	
3d	DS	<b>Identify types of angles</b> Geometry- 5.4.1				p. 85 #5 p. 100 #5	Slate # 5 Written # 4-8, Written # 17, 18	SL 3.5	
3e	DS	<b>Identify types of triangles</b> Geometry- 5.4.2					Written # 10-14	SL 3.6	
3f	S	<b>Identify place value in numbers to billions</b> Number sense- 5.1.1	p. 172	p. 145 p. 154		p. 85 #1 p. 100 #1 p. 102 #4	Slate # 3 Written # 9		
3g	S	<b>Know properties of polygons</b> Geometry- 5.4.4					Written # 13-14 Written # 17, 18	<i>Polygon Capture</i> SL 3.10 #1	
3h	S	<b>Define and create tessellations</b>					Written # 15, 16		

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 4

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (4.7 p. 245ff)	Games, S.L, Assessments TLG page:	Other
4a	<b>B</b> <b>Divide decimal numbers by whole numbers with no remainders</b> Computation- 5.2.1					Written #7,8		
4b	<b>B</b> <b>Write and solve number sentences with variables for division number sentences</b> Computation- 5.2.1 Algebra and Fractions- 5.3.2					Written # 9 Written # 10 Written # 13		
4c	<b>D</b> <b>Find the quotient and remainder of a whole number divided by a 1-digit whole number</b> Computation- 5.2.1	p. 220 p. 236	p. 220		p. 112 #4 p. 119 #4	Written # 1-4 Written # 9 Written # 10 Written # 13	<i>Division Dash</i> SL 4.2 #1, 4 SL 4.4	
4d	<b>D</b> <b>Find the quotient and remainder of a whole number divided by a 2-digit whole number</b> Computation- 5.2.1					Written # 5, 6	SL 4.1 SL 4.2 #2, 3	
4e	<b>D</b> <b>Make magnitude estimates for quotients of whole and decimal numbers divided by whole numbers</b> Computation- 5.2.6					Written # 7, 8	SL 4.4	Masters p. 44
4f	<b>D</b> <b>Interpret the remainder in division number stories</b> Computation- 5.2.1					Written # 9, 10	SL 4.5	
4g	<b>D</b> <b>Determine the value of a variable; use this value to complete a number sentence</b> Algebra and Functions- 5.3.1, 5.3.2					Written # 11 Written # 12	<i>First to 100</i> <i>Algebra Election</i> SL 4.6	Masters p. 44
4h	<b>S</b> <b>Know place value to hundredths</b> Number sense- 5.1.1, 5.1.2		p. 230 p. 242		p. 105 #4 p. 114 #4	Slate # 1, 3		

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 5

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (5.13 p. 332ff)	Games, S.L, Assessments TLG page:	Other
5a	B	<b>Add fractions with like denominators.</b>					Written # 12-14	SL 5.3 #4-8	
5b	D	<b>Order and compare fractions</b> Number Sense- 5.1.3, 5.1.7		p. 280	p. 129 #1	p. 142 #4 p. 148 #4 p. 166 # 3	Written # 15-20	SL 5.8 #3	
5c	D	<b>Convert between fractions and percents</b> Number Sense- 5.1.4		p. 312 p. 323 p. 327		p. 146 #2 p. 151 #2	Slate # 2 Written # 8	<i>Frac-Tac-Toe</i> <i>Fraction/Percent Concentration</i> SL 5.8 #1	
5d	D	<b>Draw a circle graph for a set of data</b> Data Analysis and Probability- 5.6.1					Written # 23	SL 5.11	
5e	D	<b>Measure pieces of a circle graph; interpret a circle graph</b> Data Analysis and Probability- 5.6.1, Number Sense 5.1.5					Written # 21-22 Written # 24-26	SL 5.10	
5f	DS	<b>Convert between fractions and mixed numbers</b> Number Sense- 5.1.5		p. 274			Slate # 4, 5 Written # 4-7 Written # 9-11	SL 5.2 #3-7	
5g	DS	<b>Find equivalent fractions.</b>				p. 125 #1 p. 135 #1 p. 154 #1 p. 161 #1	Slate # 6 Written # 1-3	SL 5.3 #1-8 SL 5.2 #1-2 SL 5.4	Reteach p. 273 (5.2)

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 6

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (6.11 p. 403ff)	Games, S.L, Assessments TLG page:	Other
6a	BD	<b>Construct stem and leaf plots.</b> 5.6.1-Data Analysis and Probability				p. 204 3a	Written #22		Masters p. 82 #2
6b	BD	<b>Read and interpret stem and leaf plots.</b> 5.6.1-Data Analysis and Probability				p. 197 #3	Written #7 Written #22	SL 6.3	Masters p. 82 #1
6c	D	<b>Add and subtract fractions with common denominators.</b>	p. 387	p. 398			Written #8 Written #11 Written #17c		
6d	D	<b>Add and subtract fractions with unlike denominators.</b> 5.2.2-Computation.		p. 393 p. 398			Written #10 Written #12-16 Written #17b	SL 6.9 SL 6.10	Masters p. 86
6e	D	<b>Understand how sample size affects results.</b> 5.6.4-Data Analysis and Probability					Written #5b Written #5c Written #8e	SL 6.4	
6f	D	<b>Find a common denominator.</b>					Written #12-16 Written #17b Written #18-20	SL 6.9 SL 6.10-#1-6	Masters p. 89
6g	DS	<b>Convert among fractions, decimals, and percents.</b> 5.1.4-Number Sense		p. 382		p. 173 #5 p. 187#5	Slate #2, 4, 5 Written #6 Written #8b-8d	<i>Frac-Tac-Toe</i>	
6h	S	<b>Find and use data landmarks.</b> 5.6.2-Data Analysis	p. 367			p. 204 #3 b,c,d	Written #1-5 Written #7 Written #21	SL 6.1 SL 6.5 SL 6.6	Masters p. 82 #3

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 7

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (7.11 p. 559ff)	Games, S.L., Assessments TLG page:	Other
7a	B/D	Understand and apply scientific notation.			p. 218		Slate # 3 Written # 1-4	<i>Scientific Notation Toss</i> SL 7.3 SL 7.10 #1-13	Masters p. 93
7b	D	Understand and apply powers of 10.					Slate # 2 Written # 1-4	SL 7.2 SL 7.10 # 2-5	
7c	D	Understand and apply order of operations to evaluate expressions and solve number sentences. Algebra and Expressions- 5.3.2					Written # 19-28	<i>First to 100</i> <i>Name That Number</i> SL 7.5 SL 7.10 #14-15	
7d	D	Add and subtract positive and negative numbers. Computation- 5.2.5	p. 543	p. 543		p. 236 #2 p. 244 #2	Written # 11-17, 29-44	<i>Advanced Credits/Debits Broken Calculator</i> SL 7.7 #7-13 SL 7.9 #7-14	
7e	DS	Understand and apply exponential notation.		p. 508 p. 524		p. 219 #4 p. 232 #4	Written # 1-4, 8, 10, 17, 28	Exponent Ball	
7f	DS	Identify number sentences and tell whether a number sentence is true or false. Algebra and Functions- 5.3.2					Written # 17-18	SL 7.9 #15-20 SL 7.10 #1	
7g	DS	Understand and apply the use of parentheses in number sentences.			p. 231	p. 241 #2 p. 248 #2	Written # 19-28	SL 7.4 #1-6	
7h	DS	Order and compare positive and negative numbers Number Sense- 5.1.7		p. 537			Slate # 1 Written # 5-16	<i>Top-It</i> <i>500 High Number Toss</i> SL 7.6, SL 7.7 #1-6 SL 7.8, SL 7.9 # 1-6	

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 8

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (8.13 p. 650ff)	Games, S.L, Assessments TLG page:	Other
8a	B	<b>Use an algorithm to multiply mixed numbers</b> Computation- 5.2.4		p. 632			Written # 8 Written # 28 Written # 29	<i>Fraction/ Multiplication Top It</i> <i>Fraction/Whole Number Top It</i> SL 8.7 # 1-2 SL 8.8 SL 8.12 (various)	
8b	D	<b>Use an algorithm to multiply fractions</b> Computation- 5.2.4			p. 270		Written # 18 Written # 26 Written # 27	SL 8.6 SL 8.10	Extra Pract. p. 615 Masters p. 113
8c	D	<b>Use an algorithm to subtract mixed numbers with like denominators</b> Computation- 5.2.2					Written # 7 Written # 13 Written # 15-17	SL 8.3, SL 8.12 (various)	Masters p. 107
8d	D	<b>Find a percent of a number</b> Number Sense- 5.1.4		p. 639			Slate # 3 Written # 19		Masters p. 114
8e	D/S	<b>Use an algorithm to add mixed numbers</b> Computation- 5.1.4				283 #4 288 #4	Written # 8 Written # 12 Written # 14	<i>Mixed Number Spin</i> <i>Fraction Action/Fraction Friction</i> SL 8.2 # 7-16, SL 8.12 (various)	Masters p.104 # 7-16
8f	D/S	<b>Order and compare fractions</b> Number Sense- 5.1.7	p. 577	p. 577 p. 597	p. 256		Written # 5, 6 Written # 25	<i>Build-It</i> SL 8.1 # 1-7 SL 8.4 # 1-5	
8g	S	<b>Convert among fractions, decimals, and percents</b> Number Sense- 5.1.4		p. 627			Slate # 4 Written # 1, 2	<i>Frac-Tac-Toe</i> SL 8.1 #8-14, SL 8.9 #1	
8h	S	<b>Convert between fractions and mixed or whole numbers</b>	p. 621	p. 583, p. 621			Oral #2 Slate # 2 Written # 20-23	SL 8.12 #1-4	
8i	S	<b>Find common denominators</b>		p. 591 p. 645			Written # 8 Written # 28 Written # 29	<i>Fraction Capture</i> SL 8.1 #15-21	

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 9

Goal	Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (9.11 p. 710ff)	Games, S.L, Assessments TLG page:	Other
9a	D Plot ordered pairs on a four-quadrant coordinate grid.				9.5 #1 9.8 #1 9.11 #1	Written # 2-4	<i>Hidden Treasure</i> <i>Advanced Hidden Treasure</i> SL 9.10 #1 SL 9.3	Masters p. 122-3
9b	DS Understand the concept of volume of a figure. 5.5.4-Measurement					Oral # 1 Written # 14-17, 22	SL 9.8	
9c	D Use a formula to find the volume of prisms. 5.5.4- Measurement					Written # 18-21	SL 9.9	
9d	S Plot ordered pairs on a one-quadrant coordinate grid. 5.3.4- Algebra & Functions	p. 674				Written # 1, 12, 13	<i>Hidden Treasure</i> SL 9.1 SL 9.2	Masters p. 120
9e	DS Identify the base and height of triangles and parallelograms. 5.5.1- Measurement	p. 320				Written # 10, 13		
9f	DS Use a formula to find the area of triangles and parallelograms. 5.5.1- Measurement				9.7 #1 a,b	Written # 6-9, 13	SL 9.6 SL 9.7 # 4, 5, 6, 7 SL 9.10 # 2, 3	Masters p.127-9 Masters p. 133
9g	S Understand the concept of area of a figure. Standard 5 Measurement		p. 696	p. 311 #3	9.7 #1 a,b 9.10 #1	Oral # 1 Written # 5, 11	SL 9.7 # 1, 2, 3	
9h	S Use a formula to find the area of rectangles. 5.5.4- Measurement				9.7 #1 a	Slate # 3 Written # 9	SL 9.4 # 3, 4	

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 10

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (10.10 p. 797ff)	Games, S.L, Assessments TLG page:	Other
10a	B	<b>Solve two-step pan-balance problems.</b> 5.3.2- Algebra & Functions			p. 366 # 5-7		Written # 10	SL 10.2	
10b	D	<b>Write algebraic expressions to represent situations.</b> 5.3.2- Algebra & Functions				10.8 # 4	Slate # 1, 5 Written # 1-3	Alt. Assess. Opt. <i>Graph Table Values</i> p. 802	
10c	D	<b>Represent rate problems as formulas, tables, and graphs.</b>	p. 773				Written # 4, 5	SL 10.6	Extra Practice <i>reating Tables and Graphs</i> p. 771 (10.5)
10d	D	<b>Use formulas to find circumference and area of a circle.</b>					Written # 11-14	SL 10.8 SL 10.9 # 5-8	Extra Practice <i>Calc. Circumf and Area</i> p. 796 (10.9)
10e	D	<b>Distinguish between circumference and area of a circle.</b>					Oral # 1 Written # 15-17	SL 10.9 # 1-4	
10f	D/S	<b>Solve one-step pan-balance problems.</b> 5.3.2- Algebra & Functions	p. 750		p. 361- more pan- balance practice		Written # 6-9		Reteach p. 775
10g	D	<b>Interpret mystery line plots and graphs.</b> 5.6.1- Data Analysis and Probability					Written # 18	SL 10.6 SL 10.7	Extra Practice <i>Interpreting Mystery Line Plots</i> p. 782 (10.7)

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 11

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (11.8 p. 853ff)	Games, S.L, Assessments TLG page:	Other
11a	B	Understand the relationship between the volume of pyramids and prisms and the volume of cones and cylinders.					Written # 15, 18	SL 11.4	
11b	B	Find the surface area of prisms.					Written # 8, 9	SL 11.7 # 1, 2, 4	Masters p. 165 # 1, 4
11c	B	Understand how to find the surface area of cylinders.					Written # 14	SL 11.7 # 3	Masters p. 165 # 3
11d	B	Understand the concept of capacity and how to calculate it.					Oral # 1 Written # 19, 20	SL 11.6	
11e	D/S	Use formulas to find the volume of prisms and cylinders.				11.4 # 4 11.6 # 4	Written # 6, 7 Written # 10-11 Written # 13, Written # 16-17 Written # 19-20	SL 11.3 SL 11.4, SL 11.7 # 3, 4	
11f	S	Use formulas to find the area of polygons and circles.			p. 381 #4, 6a, 7a p. 390	11.2 # 2, 4 11.4 # 2 11.6 # 2	Slate # 3 Written # 5, 12	SL 11.3	
11g	S	Know the properties of geometric solids. 5.4.8 & 5.4.9- Geometry					Oral # 2 Written # 1-4	3-D Shape Sort SL 11.2 # 1	

## Everyday Math Assessment Opportunities Grade 5

MMR = Mental Math Reflex, TLG = Teacher's Lesson Guide, SL = Study Link

### Unit 12

Goal		Description of EM Learning Goal	Math Msg TLG page:	MMR TLG page:	Journal page	Math Box Student page:	Tests (12.10 p. 918ff)	Games, S.L., Assessments TLG page:	Other
12a	B	Understand and use tree diagrams to solve diagrams.					Written # 9	SL 12.1 # 1 SL 12.2	Masters p. 167 #1
12b	B	Compute the probability of outcomes when choices are equally likely.	p. 410	p. 877			Written # 10		
12c	B/D	Use the Multiplication Counting Principle to find the total number of possible outcomes of a sequence of choices.					Slate # 4 Written # 9	SL 12.2	
12d	D	Find the greatest common factor of two numbers.					Written # 4		
12e	D	Find the least common multiple of two numbers.					Slate # 3 Written # 5, 6-8, 11	SL 12.1 #2	Masters p. 167 #2
12f	D/S	Solve ratio and rate number stories. 5.6.4- Data Analysis & Probability	p. 432		p. 419 p. 420, p. 422 p. 423		Oral # 2 Written # 12-20	SL 12.3 SL 12.4 SL 12.5 # 7-10 SL 12.6 SL 12.7 # 1-3 SL 12.8	Reteach p. 887 (12.3)  Reteach p. 892 (12.4)
12g	S	Find the factors of numbers.	p. 405				Oral # 1 Slate # 1 Written # 1, 2, 6-8, 11		
12h	S	Find the prime factorization of numbers.					Written # 1-3	SL 12.1 # 3-4	Masters p. 167 #1