

# F.4 - Grade 4 Math

PUBLISHER/PROVIDER MATERIAL INFORMATION (TO BE COMPLETED BY PUBLISHER/PROVIDER)										
Publisher/Provider Name/Imprint:	McGraw Hill LLC	Grade(s):	4							
Title of Student Edition:	Reveal Math, Grade 4, MH Student Bundle with ALEKS Adventure, 6-year	Student Edition ISBN:	9781266754340							
Title of Teacher Edition:	Reveal Math, Grade 4, Teacher Resource Package, 1-year	Teacher Edition ISBN:	9781264389377							
Title of SE Workbook:		SE Workbook ISBN:								

PUBLISHER/PROVIDER CITATION VIDEO: Reviewer must view video before starting the review of this set of materials.									
Citation Video Link:	https://www.brainshark.com/1/player/mcgraw-hillseg?pi=zHbzymQE9zlCYQz0&r3f1=&fb=0								
Citation video certification:	certify that I have viewed the citation video for this specific publisher and set of materials.								
Digital Material Log In: (Include ONLY if submitting digital materials as part of the review set listed above.)	Website:  my.mheducation.com		Password: NMdemo25!						

	R/PROVIDER IN	eview Math Content Standards							
LISHE	K/PROVIDER IN	· · · · · · · · · · · · · · · · · · ·	Columns D-F: The publisher/provider will p	rovide a citati	on or citations from the Teacher Edition	or <b>Columns-G-t</b> irts:oog@me <b>aterdel</b> )rt Edition, Stu	ident Work	nook or other student-facing materials	provide a citation for each math cont
riteria #	Standard	F.4 Grade 4 Math Standards Review	Publisher/Provider Citation from Teacher Edition	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes
		ons and Algebraic Thinking							
luster:	Use the four or	perations with whole numbers to solve problems.							
1	4.OA.1	Interpret a multiplication equation as a comparison, e.g., interpret 35= 5 x 7 as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	Volume 1: pp 110, 110A, 111						
2	4.OA.2		Volume 1: pp 114, 114A, 115 Volume 1: pp 118, 118A, 119						
3	4.OA.3	whole-number answers using the four operations, including problems in	Volume 1: pp 94, 94A,9 5 Volume 1: pp 196, 196A, 197 Volume 1: pp 232, 232A, 233						
Cluster:	Gain familiarity	y with factors and multiples.				•		•	
4	4.OA.4	that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite.	Volume 1: pp 142, 142A, 143-144 New Mexico Connections: Grade 4, p 17: (digital asset clickpath: Login to MHE OLP > Grade 4 > Browse this course > Program Resources: Course Materials > Planning Resources)						
Clustor	Congrate and	l analyze patterns.	Resources						
5			Volume 1: pp 50, 50A, 51						
DOMAIN:	4.NBT - Numbe	er and Operations in Base Ten							
		ce value understanding for multi-digit whole numbers.							
6	4.NBT.1		Volume 1: pp 34, 34A, 35						
7	4.NBT.2		Volume 1: pp 42, 42A, 43						
8	4.NBT.3	any place.	Volume 1: pp 46, 46A, 47						
Cluster:	Use place value	e understanding and properties of operations to perform multi-digit arith							
9	4.NBT.4	algorithm.	Volume 1: pp 70, 70A, 71 Volume 1: pp 82, 82A,8 3						
10	4.NBT.5	, , , , , , , , , , , , , , , , , , , ,	Volume 1: pp 182, 182A, 183 Volume 1: pp 190, 190A, 191						
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UBLISHE	R/PROVIDER IN	NSTRUCTIONS:							
002.0112	4. 10 11521111		Columns D-F: The publisher/provider will p	provide a citat	ion or citations from the Teacher Editic	or <b>Columns-G-t</b> ingsing the <b>Standal)</b> t Edition, Stu	ident Workb	book, or other student-facing materials	, provide a citation for each math con
riteria #	Standard	F.4 Grade 4 Math Standards Review	Publisher/Provider Citation from Teacher Edition	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes
11	4.NBT.6	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Volume 1: pp 224 ,224A, 225						
OMAIN:	4. NF - Numbe	r and Operations - Fractions							
uster:	Extend unders	tanding of fraction equivalence and ordering.							
12	4.NF.1	Explain why a fraction $a/b$ is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions	Volume 2: pp 8, 8A, 9						
13	4.NF.2	fractions.  Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as 1/2. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols >, =, or <, and justify the conclusions, e.g., by using a visual fraction model.	Volume 2: pp 16, 16A, 17						
uster:	Build fractions	from unit fractions by applying and extending previous understandings of	of operations on whole numbers.						
14	4.NF.3	Understand a fraction $a/b$ with $a > 1$ as a sum of fractions $1/b$ .	Volume 2: p 34	<u> </u>					
15	4.NF.3a		Volume 2: pp 38, 38A, 39 Volume 2: pp 46, 46A, 47						
16	4.NF.3b	Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model. Examples: $3/8 = 1/8 + 1/8 + 1/8 + 1/8 : 3/8 = 1/8 + 2/8 : 2 1/8 = 1 + 1 + 1/8 = 8/8 + 8/8 + 1/8$ .	Volume 2: pp 35-36						
17	4.NF.3c	Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	Volume 2: pp 42, 42A, 43 Volume 2: pp 50, 50A, 51						
18	4.NF.3d	Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	Volume 2: pp 156, 156A, 157						
19	4.NF.4	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.	Volume 2: pp 102, 102A, 103						
20	4.NF.4a		Volume 2: pp 106, 106A, 107						
21	4.NF.4b	Understand a multiple of $a/b$ as a multiple of $1/b$ , and use this understanding to multiply a fraction by a whole number. For example, use a visual fraction model to express $3 \times (2/5)$ as $6 \times (1/5)$ , recognizing this product as $6/5$ . (In general, $n \times (a/b) = (n \times a)/b$ .)	Volume 2: pp 110, 110A, 111						
22	4.NF.4c	Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem. For example, if each person at a party will eat 3/8 of a pound of roast beef, and there will be 5 people at the party, how many pounds of roast beef will be needed? Between what two whole numbers does your answer lie?	Volume 2: pp 120, 120A, 121						

		eview Math Content Standards							
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riteria #	Standard	Reviewer directions for Math Content Standards Review:  F.4 Grade 4 Math Standards Review	Columns D-F: The publisher/provider will p Publisher/Provider Citation from Teacher Edition	Score	ion or citations from the Teacher Editio  If Scored D: Reviewer's  Evidence  for Publisher Citation	or Columns-G-tingsongelma@emidal) t Edition, Stu Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes
23	4.NF.5	Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. For example, express 3/10 as 30/100, and add 3/10 + 4/100 = 34/100.	Volume 2: pp 132, 132A, 133						
24	4.NF.6	Use decimal notation for fractions with denominators 10 or 100. For example, rewrite 0.62 as 62/100; describe a length as 0.62 meters; locate 0.62 on a number line diagram.	Volume 2: pp 136, 136A, 137						
25	4.NF.7	Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.	Volume 2: pp 140, 140A, 141						
		rement and Data							
uster:	Solve problems	s involving measurement and conversion of measurements from a larger		1				1	I
26		Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36),	Volume 2: pp 162, 162A, 163						
27		intervals of time, liquid volumes, masses of objects, and money,	Volume 2: pp 150, 150A, 151 Volume 2: pp 178, 178A, 179 Volume 2: pp 184, 184A, 185						
28		Apply the area and perimeter formulas for rectangles in real world and mathematical problems. For example, find the width of a rectangular room given the area of the flooring and the length, by viewing the area formula as a multiplication equation with an unknown factor.	Volume 2: pp 196, 196A, 197						
uster:	Represent and	interpret data.							
29	4.MD.4	Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots. For example, from a line plot find and interpret the difference in length between the longest and shortest specimens in an insect collection.	Volume 2: pp 200, 200A, 201						
uster:	Geometric mea	asurement: understand concepts of angle and measure angles.						<u> </u>	
30	4.MD.5	Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement:	Volume 2: p 220						
31	4.MD.5a	An angle is measured with reference to a circle with its center at the common endpoint of the rays, by considering the fraction of the circular arc between the points where the two rays intersect the circle. An angle that turns through 1/360 of a circle is called a "one-degree angle," and can be used to measure angles.	Volume 2: pp 221-222						
32	4.MD.5b	An angle that turns through $n$ one-degree angles is said to have an angle measure of $n$ degrees.	•						
33	4.MD.6	Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	Volume 2: pp 225-226		İ				

Section 1	ction 1: Standards Review Math Content Standards									
UBLISHER	BLISHER/PROVIDER INSTRUCTIONS:									
	Reviewer directions for Math Content Standards Review: Columns D-F: The publisher/provider will provide a citation or citations from the Teacher Edition Columns Guidents Guid									
Criteria #	Standard	F.4 Grade 4 Math Standards Review	Publisher/Provider Citation from Teacher Edition	Score	If Scored D: Reviewer's Evidence for Publisher Citation	Reviewer Citation from Student Edition/Workbook	Score	Required: Reviewer's Evidence	Comments, other citations, notes	
34	4.MD.7	Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure.								
OMAIN:	4.G - Geometry									
Cluster:	Draw and ident	tify lines and angles, and classify shapes by properties of their lines and a	angles.				4			
35	4.G.1	Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.								
36	4.G.2	-	Volume 2: pp 240, 240A, 241 Volume 2: pp 244, 244A, 245	'				1		
37	4.G.3	Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	Volume 2: pp 250, 250A, 251							

Standards for Mathematical Practice (SMPs)	Reviewer Tracking	Reviewer TrackingOccurrences of SMPs within Materials:						
	First fourth of the	Second fourth of the	Third fourth of the	Final Fourth of the				
1 Make sense of problems and persevere in solving them.								
2 Reason abstractly and quantitatively.								
3 Construct viable arguments and critique the reasoning of others.								
4 Model with mathematics.								
5 Use appropriate tools strategically.								
6 Attend to precision.								
7 Look for and make use of structure.								
8 Look for and express regularity in repeated reasoning.								

#### Section 2: Math Content Review PUBLISHERS/PROVIDERS: • The Math Content Review tab will be completed solely by the reviewers. They will score each criterion and provide evidence for their score from the material based on their overall review of the material. You will not provide any citations for this tab. • The material will be scored for alignment with each criterion as "Meets expectations", "Partially meets expectations", or "Does not meet expectations". Required: Reviewer's Evidence from Material Criteria **Grades K-12 Math Content Criteria** Include where you found the evidence in the material and what Score Comments, citations, notes # evidence you found that supports your score. FOCUS AREA 1: RIGOR AND MATHEMATICAL PRACTICES Materials support student mastery through a grade-appropriate balance of rigor: conceptual understanding, procedural fluency, and application. Materials meaningfully connect the Content Standards (CCSS) with the Standards for Mathematical Practice (SMPs). Conceptual Understanding: Materials support the intentional development of students' conceptual understanding of key mathematical concepts. Procedural Skill and Fluency: Materials support intentional opportunities for students to develop procedural skills and fluencies in alignment with what is called for in the grade-level standards. Application: Materials support students' ability to leverage 3 mathematical skills, concepts, representations, and strategies across a range of contexts, (including applying learning to real-world situations and new contexts). Balance of Rigor: With equitable intensity The three aspects of rigor are not always treated together and are not always treated separately. The three aspects are balanced with respect to the standards being addressed in each grade level. SMPs 1 and 6 Materials support the intentional development of making 5 sense of problems and attending to precision as required by the mathematical practice standards 1 and 6. SMPs 2 and 3 Materials support the intentional development of reasoning abstractly and quantitatively, along with 6 developing viable arguments and critiquing the reasoning of others, in connection to the content standards, as required by the practice standards 2 and 3. SMPs 4 and 5 Materials support the intentional development of modeling 7 and using tools, in connection to the content standards, as required by the mathematical practice standards 4 and 5. SMPs 7 and 8 Materials support the intentional development of seeing 8 structure and generalizing, in connection to the content standards, as required by the mathematical practice standards 7 and 8. **FOCUS AREA 2: STUDENT CENTERED INSTRUCTION** Materials contain embedded resources (routines, strategies, and pedagogical suggestions) to support all students in developing a positive mathematical identity, cultivating self-efficacy, and seeing themselves as a contributor to the math community. Materials provide students with opportunities to develop self-efficacy and a positive mathematical identity through opportunities to engage in grade-level tasks using various

# Materials provide opportunities for students to see themselves as contributors to the math community. FOCUS AREA 3: INSTRUCTIONAL SUPPORTS FOR ALL STAKEHOLDERS

sharing strategies and approaches.

Materials provide guidance and resources to support educators in internalizing the mathematical content and providing responsive and differentiated instruction to all students. Materials contain helpful resources to support implementation and instruction (e.g. materials for leaders, teachers, students, families/ caregivers, etc).

# Section 2: Math Content Review

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Criteria #	Grades K-12 Math Content Criteria	Score	Required: Reviewer's Evidence from Material Include where you found the evidence in the material and what evidence you found that supports your score.	Comments, citations, notes
11	Teacher materials contain full, adult-level explanations and examples of the mathematics concepts within lessons so teachers can improve their own knowledge of the subject. Materials are in print or clearly distinguished/accessible as a teacher's edition in digital materials.			
12	The materials provide guidance for unit/lesson preparation to support use of the materials as intended and to further develop the teachers' own understanding of the mathematical approach.			
13	Teacher materials provide insight into students' ways of thinking with respect to important mathematical concepts, especially anticipating a variety of student responses.			
14	Materials contain strategies for informing parents or caregivers about the mathematics program and suggestions for how they can help support student progress and achievement.			

### Section 2: All Content Review

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Criteria #	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material Include where you found the evidence in the material and what evidence you found that supports your score.	Comments, citations, notes
FOCUS AI	REA 1: COHERENCE			
Instruction	onal materials are coherent and consistent with the New M	exico Conte	nt Standards	
that all st	tudents should study in order to be college- and career-read	ly.		
	Instructional materials address the full content contained			
1	in the standards for all students by grade level.			
_	and the standards for an stadents 27 grade leven			
	Instructional materials support students to show mastery			
2	of each standard.			
	Instructional materials require students to engage at a level			
3	of maturity appropriate to the grade level under review.			
	Instructional materials are coherent, making meaningful			
4	connections for students by linking the standards within a			
	lesson and unit.			
FOCUS A	REA 2: WELL-DESIGNED LESSONS			
Instruction	onal materials take into account effective lesson structure a	nd pacing.		
	The Teacher Edition presents learning progressions to			
	provide an overview of the scope and sequence of skills			
5	and concepts. The design of the assignments shows a			
	purposeful sequencing of teaching and learning			
	expectations.			
	Within each lesson of the instructional materials, there are			
6	clear, measurable, standards-aligned content objectives.			
	Maritiment Indiana Charles and			
_	Within each lesson of the instructional materials, there are			
7	clear, measurable language objectives tied directly to the			
	content objectives.			
8	Instructional materials provide focused resources to			
•	support students' acquisition of both general academic vocabulary and content-specific vocabulary.			
	The visual design of the instructional materials (whether in			
9	print or digital) maintains a consistent layout that supports			
	student engagement with the subject.			
	Instructional materials incorporate features that aid			
10	students and teachers in making meaning of the text.			
	Instructional materials provide students with ongoing			
11	review and practice for the purpose of retaining previously			
	acquired knowledge.			
FOCUS A	REA 3: RESOURCES FOR PLANNING			
	onal materials provide teacher resources to support plannir	g, learning,		
and unde	erstanding of the New Mexico Content Standards.			
	Instructional materials provide a list of lessons in the			
	Teacher Edition (in print or clearly distinguished/ accessible			
12	as a teacher's edition in digital materials), cross-referencing			
	the standards addressed and providing an estimated			
	instructional time for each lesson, chapter, and unit.			
	Instructional materials support teachers with instructional			
13	strategies to help guide students' academic development.			
	Instructional materials include a teacher adition / t			
	Instructional materials include a teacher edition/ teacher-			
14	facing material with useful annotations and suggestions on how to present the content in the student edition/student-			
	facing material and in the supporting material.			
	Instructional materials integrate opportunities for digital			
15	learning, including interactive digital components.			
FOCUS A	REA 4: ASSESSMENT		<b>'</b>	

Instructional materials offer teachers a variety of assessment resources and tools to collect ongoing data about student progress related to the standards.

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Criteria	All Content Criteria Review	Score	Required: Reviewer's Evidence from Material  Include where you found the evidence in the material and what	Comments, citations, notes
#			evidence you found that supports your score.	,,
	Instructional materials provide a variety of assessments			
	that measure student progress in all strands of the			
-	standards for the content under review.			
	(Adopted New Mexico Content Standards for 2025: CCSS			
	for Mathematics.)			
	Instructional materials provide multiple formative and			
17 I	summative assessments, clearly defining which standards			
	are being assessed through content and language			
	objectives.			
	Instructional materials provide scoring guides for assessments that are aligned with the standards they			
	address, and that offer teachers guidance in interpreting			
	student performance and suggestions for further			
	instruction, differentiation, and/or acceleration.			
	Instructional materials provide appropriate assessment			
40	alternatives for English Learners, Culturally and			
19	Linguistically Diverse students, advanced students, and			
	special needs students.			
	Instructional materials include opportunities to assess			
	student understanding and knowledge of the standards			
	using technology.			
	REA 5: EXTENSIVE SUPPORT			
istructio	onal materials give all students extensive opportunities and	support to	explore key concepts.	
21	Instructional materials can be customized or adapted to			
	meet the needs of different student populations.			
I	Instructional materials provide differentiated strategies			
22	and/or activities to meet the needs of students working			
	below proficiency and those of advanced learners.			
	Instructional materials provide appropriate linguistic			
	support for English Learners and Culturally and			
73 I	Linguistically Diverse students, and accommodations and modifications for other special populations that will			
	support their regular and active participation in learning			
	content.			
	Instructional materials provide strategies and resources for			
	teachers to inform and engage parents, family members,			
24	and caregivers of all learners about the program and			
	provide suggestions for how they can help support student			
	progress and achievement.			
	Instructional materials include opportunities for all			
25 I	students that encourage and support critical and creative			
	thinking, inquiry, and complex problem-solving skills.			
OCUE AF	DEA C. CHUTUDAL AND LINCUICTIC DEDCRECTIVES			
	REA 6: CULTURAL AND LINGUISTIC PERSPECTIVES	orcnostivo		
istructio	nal materials represent a variety of cultural and linguistic p	erspectives	s.	
	Instructional materials inform culturally and linguistically			
26 1	responsive pedagogy by affirming students' backgrounds in			
	the materials themselves and in the student discussions.			
	Instructional materials provide a collection of images,			
	stories, and information, representing a broad range of			
27 I	demographic groups, and do not make generalizations or			
	reinforce stereotypes.			
	Instructional materials provide context, illustrations, and			
28	activities for students to make interdisciplinary connections			
20	and/or connections to real-life experiences and diverse			
	cultural and linguistic backgrounds.			
	REA 7: INCLUSION OF CULTURALLY AND LINGUISTICALLY RES			
structio	onal materials highlight diversity in culture and language thr	ough multi	ple perspectives.	
	Instructional materials include tools and resources to relate			
29	the content area appropriately to diversity in culture and			
	language.			

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30	Instructional materials include tools and resources that			
30	demonstrate multiple perspectives in a specific concept.			
	Instructional materials engage students in critical reflection			
31	about their own lives and societies, including cultures past			
	and present in New Mexico.			
	Instructional materials address multiple ethnic			
32	descriptions, interpretations, or perspectives of events and			
	experiences.			