	Chapter 1: Add & Subtract				
Lesson	Topic	Lesson Objectives	Chapter Materials		
1	Whole Number Place Value	 Demonstrate an understanding of place value Express numbers in standard form, word form, expanded form, and expanded form with multiplication Identify the value of the digits in a number Compare numbers using >, <, or = Round numbers to the place of greatest value or to a given place 	Teaching Visuals (Teacher's Toolkit CD): • Chart 1: Roman Numerals Teacher Manipulatives Packet: • Place Value Pocket Chart Kit • Decimal Place Value Pocket Chart Kit • Place Value Kit		
2	Add Whole Numbers	 Apply addition strategies for mental math Add whole numbers Estimate the sum by rounding or using front-end estimation Solve addition word problems 	Money Kit Number Line Thermometer and Red Strip Roman Numeral Clock		
3	Subtract Whole Numbers	 Apply the Zero Principle of Subtraction Subtract whole numbers Estimate the difference by rounding or using front-end estimation Solve subtraction word problems Check a subtraction problem, using addition 	Student Manipulatives Packet: • Decimal Place Value Pocket Chart Kit • Money Kit (optional) • Number Line Instructional Aids (Teacher's Toolkit CD):		
4	Decimal Place Value	 Demonstrate an understanding of decimal place value Express decimals in standard form, word form, fraction form, expanded form, and expanded form with multiplication Identify the value of the digits in a number Compare and order decimals Round decimals to the place of greatest value or to a given place 	 Decimal Number Lines (page IA1) Part-Whole Models (page IA2) Problem-Solving Plan (page IA3) Positive & Negative Number Line (page IA4) Roman Numerals (page IA5) Roman Numeral Sequences (page IA6) for 		
5	Add & Subtract Decimals	 Apply addition properties to decimals: Commutative Property, Identity Property, and Associative Property Add and subtract decimals Estimate sums and differences Check a subtraction problem, using addition 	 Roman Numeral Sequences (page IA6) for each student Number Patterns (page IA7) Patterns (page IA8) Patterns (page IA8) for each student Cumulative Review Answer Sheet (page IA9) for each student Christian Worldview Shaping (Teacher's Toolkit CD): Pages 1–3 Other Teaching Aids: An apple A small sharp knife A Bible An overhead calculator A calculator for each student (optional) 		
6	Solving Problems	 Demonstrate an understanding of the inverse relationship between addition and subtraction Use a part-whole model to solve addition and subtraction word problems Write an equation for a word problem Solve multi-step word problems 			
7	Positive & Negative Numbers	Compare and order positive and negative numbers Identify the number that is 1 more or 1 less Plot positive and negative numbers on a number line Add positive and negative numbers using a number line			
8	Roman Numerals	Read and write Roman numerals Complete a sequence of Roman numerals	Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD):		
9	Patterns	Use logic to identify number patternsUse a pattern to solve a problem	Fact Review pages Application pages		
10	Chapter 1 Review	• Review	Calculator Activities		
11	Chapter 1 Test Grade 5 Review	 Add, subtract, multiply, and divide whole numbers Solve equations with variables Determine the perimeter and the area of polygons Add decimals Identify the mathematical expression for a word phrase Identify the fraction represented by a picture or a number line Measure to the nearest inch or half inch Identify the standard form of a whole number or a decimal written in expanded form 			

	Chapter 2: Multiply by a Whole Number			
Lesson	Topic	Lesson Objectives	Chapter Materials	
12	Multiplication	Demonstrate an understanding of multiplication and the terms factor, product, and multiple Write a mathematical equation for a word phrase Solve multiplication equations with a multiplication dot, parentheses, or variables Identify prime and composite numbers Identify the Greatest Common Factor (GCF) and the Least Common Multiple (LCM) of a pair of numbers Apply properties of multiplication to numbers and variables: Commutative Property, Associative Property, Identity Property, and Zero Property	Teacher Manipulatives Packet: • Place Value Kit • Money Kit Student Manipulatives Packet: • Place Value Kit • Money Kit Instructional Aids (Teacher's Toolkit CD): • Cumulative Review Answer Sheet (page IA9) for each student • Sieve of Eratosthenes (page IA10) • Sieve of Eratosthenes (page IA10) for each student • Apply Properties (page IA11) • Powers of 10 (page IA12) • Graph Paper (page IA13) • Graph Paper (page IA13) • Graph Paper (page IA13) for each student • Perfect Squares & Square Roots (page IA14)	
13	Multiples of 10	Multiply multiples of 10 Apply the Commutative and Associative Properties of Multiplication to multiply factors that are multiples of 10 Analyze patterns for using mental math to multiply factors that are multiples of 10 Apply the Distributive Property of Multiplication over Addition to multiply by multiples of 10 Identify the applied addition or multiplication property		
14	Exponents	 Develop an understanding of exponents Develop an understanding of squares Write numbers in expanded form with multiplication using exponents (powers of 10) 	Perfect Squares & Square Roots (page IA14) for each student Pictures of Multiplication (page IA15) Christian Worldview Shaping	
15	1- & 2-Digit Multipliers	 Multiply a whole number by a 1- or 2-digit multiplier Apply the Distributive Property of Multiplication over Addition Estimate the product by rounding to the place of greatest value and by using front-end estimation Solve a multiplication word problem 	 (Teacher'sToolkit CD): Pages 4–6 Other Teaching Aids: Colored pencils: red and green for each student A sheet of graph paper for each student A calculator for each student (optional) Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): Fact Review pages Application pages Calculator Activities 	
16	Multiply Decimals by a Whole Number	 • Multiply a decimal by a 1- or 2-digit multiplier • Estimate the product by rounding to the place of greatest value • Apply the Distributive Property of Multiplication over Addition • Solve decimal word problems, including money problems • Solve a multi-step word problem • Multiply a decimal by a power of 10 		
17	3-Digit Multipliers	 Multiply by a 3-digit multiplier Estimate the product by rounding to the place of greatest value Solve a money multiplication problem Determine the number of partial products Apply strategies to multiply mentally 		
18	Squares & Square Roots	 Develop an understanding of finding perfect squares Develop an understanding of finding the square root of a perfect square List the first 20 perfect squares and their square roots Use the Pythagorean Theorem to find the measurement of the hypotenuse of a right triangle 		
19	Chapter 2 Review	• Review		
20	Chapter 2 Test Cumulative Review	 Identify the addition property applied to an equation Add and subtract whole numbers Solve for the variable in a subtraction equation 		

Identify the standard form of a whole number or a decimal written in expanded form or word form Determine the decimal represented by a point on a number line Solve for the variable in a part-whole model	
Read and interpret a pictograph	

		Chapter 3: Divide by a Whole Numb	er
Lesson	Topic	Lesson Objectives	Chapter Materials
21	Division	• Demonstrate an understanding of division and the terms dividend, divisor, and quotient	Teacher Manipulatives Packet: • Place Value Kit
		Demonstrate an understanding of the inverse relationship between multiplication and division	Instructional Aids (Teacher's Toolkit
		Divide by a 1-digit divisor to find a 2- or 3-digit quotient	CD):
		Solve a division word problem	• Cumulative Review Answer Sheet (page IA9) for each student
		• Interpret a remainder	• Graph Paper (page IA13) for each student
		Check a division problem using multiplication	(optional)
22	Multiples of 10	• Recognize numbers divisible by 2, 3, 4, 5, 6, 9, or 10	• Short Form of Division (page IA16)
22		Divide multiples of 10 using mental math	(optional)
		• Divide by a 2-digit multiple of 10	• Short Form of Division (page IA16) for each student (optional)
		Solve a division word problem	Multi-Step Problems (page IA17)
		• Estimate a quotient	• Multi-Step Problems (page IA17) • Multi-Step Problems (page IA17) for each
		• Interpret a remainder	student
	2 Digit Divisors	Check a division problem using multiplication Divide by a 2 digit divisor	Christian Worldview Shaping
23	2-Digit Divisors	Divide by a 2-digit divisor Estimate a quotient	(Teacher'sToolkit CD):
		Solve a division word problem	• Pages 7–9
		Adjust the quotient in a division problem	Math 6 Tests and Answer Key
		• Interpret a remainder	Optional (Teacher's Toolkit CD):
		Check a division problem using multiplication	• Fact Review pages
0.4	Divide a Decimal by	Divide a decimal by a 1-digit whole number	Application pages
24	a Whole Number	Annex a zero to rename a decimal	Calculator Activities
		Check a division problem using multiplication	
		Estimate a quotient	
		• Divide to find a quotient less than 1	
		Express a fraction as an equivalent decimal	
		Solve a division word problem	
	5	• Interpret a remainder	
25	Divide a Decimal by	Determine an average (mean) or a unit rate Divide a decimal by a 2-digit whole number	
	2-Digit Divisors	Estimate a quotient Estimate a quotient	
		• Divide to find a quotient less than 1	
		Annex a zero to rename a decimal	
		Solve a division word problem	
		Interpret a remainder	
		Express a fraction as an equivalent decimal	
26	Divide by a Power	• Divide by a power of 10	
26	of 10	• Divide a whole number by a 1-, 2-, or 3-digit divisor	
		• Divide a decimal by a 1-, 2-, or 3-digit whole number	
		• Estimate a quotient	
		Solve a division word problem Interpret a remainder	
	Order of Operations	Use the Order of Operations to simplify an expression	-
27	Order of Operations	Complete an expression to make an equation true	
	Multi-Step Problems	Solve a multi-step problem	1
28	main-oreh Lionieilia	• Use the Order of Operations to write an equation for a multi-	
		step problem	
22	Chapter 3 Review	• Review	1
29			
20	Chapter 3 Test	Solve multiplication and division equations]
30	Cumulative Review	Determine the exponent form for a repeated multiplication	
		equation	

 Determine the greatest common factor of 2 numbers Determine the least common multiple of 2 numbers Identify the multiplication expression for an exponent form, an array, a picture, or a part-whole model Identify the value of a digit in a number Determine the standard form of a decimal written in word form
Compare and order whole numbers and decimals Identify the decimal form of a fraction Read and interpret a line graph

		Chapter 4: Fraction Theory	
Lesson	Topic	Lesson Objectives	Chapter Materials
31	Greatest Common Factor	Determine the greatest common factor (GCF) of two or more numbers by listing the factors, by creating and analyzing a Venn diagram, and by constructing factor trees to find and evaluate the prime factorizations Apply the GCF to problem-solving situations	Teaching Visuals (Teacher's Toolkit CD): • Chart 2: Halves, Thirds, Fourths • Chart 3: Sixths, Eighths • Chart 4: Tenths • Chart 5: Part of a Set Teacher Manipulatives Packet: • Fraction Kit Student Manipulatives Packet: • Fraction Kit • Ruler: Inch Ruler (eighths)
32	Least Common Multiple	Determine the GCF of two numbers Determine the Least Common Multiple (LCM) of two or more numbers by listing the multiples, by creating and analyzing a Venn diagram, and by constructing factor trees to find and evaluate the prime factorizations Write prime factorizations using exponential notation Apply the LCM to problem-solving situations	
33	Proper Fractions	 Demonstrate an understanding of fractions Write a fraction to name part of a whole, a point on a number line, and part of a set Draw models of whole shapes, whole sets, and number lines to represent fractions Identify fractions equivalent to 1 Complete a fraction model 	Instructional Aids (Teacher's Toolkit CD): Cumulative Review Answer Sheet (page IA9) for each student Numbers/Facts/Factors (page IA18) Venn Diagram: Factors (page IA19) Percent Circle (page IA20) Christian Worldview Shaping
34	Improper Fractions & Mixed Numbers	Rename a mixed number as an improper fraction Rename an improper fraction as a whole number or a mixed number Estimate the value of an improper fraction Draw a model to solve a word problem	(Teacher's Toolkit CD): • Pages 10–14 Other Teaching Aids: • A blank sheet of paper for each student and the teacher
35	Equivalent Fractions	 Apply strategies to rename fractions to higher terms Apply strategies to rename fractions to lower terms and to lowest terms Use cancellation to rename fractions to lowest terms 	Several blank pages for display, for overlay with Percent Circle (page IA20) Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): Fact Review pages Application pages Calculator Activities
36	Compare & Order Fractions	 Write an inequality to express unequal relationships Apply fraction number sense to compare and order fractions Compare and order unlike fractions by renaming to fractions with a common denominator Determine equivalent fractions using the LCM Compare and order mixed numbers and improper fractions 	
37	More Comparing Fractions	 Write an inequality to express unequal relationships Apply fraction number sense to compare and order fractions Compare and order fractions by renaming unlike fractions to fractions with a common denominator, by cross-multiplying, and by renaming as decimals 	
38	Fractions & Percents	Use a fraction model to represent a percent Write a percent as a fraction in lowest terms Write a fraction as a percent Use a circle graph to solve problems Make a circle graph to communicate data	
39	Chapter 4 Review	• Review	
40	Chapter 4 Test Cumulative Review	 Determine the equation represented by a part-whole model or an array Recognize the expanded form or standard form of an exponent Apply multiplication properties Write the expanded form of a number using exponents Determine the average Identify all of the factors of a number 	

Solve word problems Read and interpret a chart, a stem-and-leaf plot, and a double line graph	
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	Chapter 5: Add & Subtract Fractions			
Lesson	Topic	Lesson Objectives	Chapter Materials	
41	Estimate Sums &	• Identify fractions equivalent to 1 and to ½	Teacher Manipulatives Packet:	
41	Differences	Write an inequality to express an unequal relationship	Fraction Kit	
		• Estimate the sum or the difference of mixed numbers and	Student Manipulatives Packet:	
		fractions by rounding to the nearest whole number or the	Fraction Kit	
	Add 0 Codetes at 1 the	nearest ½	Instructional Aids (Teacher's Toolkit	
42	Add & Subtract Like	Add and subtract fractions and mixed numbers with like denominators	CD):	
	Fractions	Rename an improper fraction as a mixed number	• Cumulative Review Answer Sheet (page IA9) for each student	
		Simplify fractions by renaming to lowest terms	• Fraction Number Lines (page IA21)	
		• Solve a fraction word problem	Venn Diagram (page IA22) (optional)	
		• Estimate the sum or the difference of mixed numbers by	• Guess & Check (page IA23)	
		rounding to the nearest whole number	• Guess & Check (page IA23) for each	
		Apply addition properties to fractions: Identity Property,	student	
		Commutative Property, and Associative Property	Christian Worldview Shaping	
43	Add & Subtract	Add and subtract fractions and mixed numbers with unlike	(Teacher's Toolkit CD):	
43	Related Fractions	(related) denominators	• Pages 15–17	
		• Apply the Identity Property of Multiplication to rename	Math 6 Tests and Answer Key	
		fractions to higher terms	Optional (Teacher's Toolkit CD):	
		Simplify fractions by renaming to lowest terms Solve a fraction word problem	Fact Review pages	
		Estimate the sum or the difference of mixed numbers and	Application pages	
		fractions	Calculator Activities	
	Add & Subtract	Add and subtract fractions and mixed numbers with unlike		
44	Unlike Fractions	(unrelated) denominators		
	omine i radiions	Multiply unlike denominators to find a common denominator		
		Determine the Least Common Denominator by listing		
		multiples, by creating and analyzing a Venn diagram, and by		
		constructing factor trees to evaluate the prime factorizations		
		Write prime factorizations using exponential notation		
		Estimate the sum or the difference of mixed numbers and fractions		
	More Fractions &	Compare fractions and mixed numbers		
45	Mixed Numbers	• Round fractions to 0, ½, or 1		
	Wilked Nullibers	Add and subtract fractions and mixed numbers		
		Estimate the sum or the difference of mixed numbers and		
		fractions		
		Solve problems with 3 addends		
		• Solve word problems using the Least Common Denominator		
46	Guess & Check	Use the guess-and-check strategy to solve problems		
46	Observation 5 Description	n. i.		
47	Chapter 5 Review	• Review		
48	Chapter 5 Test	Read and interpret a bar graph		
40	Cumulative Review	Demonstrate an understanding of part-whole models		
		Identify addition properties and multiplication properties		
		• Identify the mathematical expression for a given word phrase		
		Identify multiples of a given number		
		Identify prime and composite numbers		

	Chapter 6: Plane Figure Geometry			
Lesson	Topic	Lesson Objectives	Chapter Materials	
49	Basic Geometric Figures	Identify, name, and draw points, lines, and planesDistinguish between collinear and noncollinear points	Teacher Manipulatives Packet: • 2 Rays: ray A and ray BC	
		• Identify the location of a point on a coordinate plane by naming the coordinates and the quadrant	Student Manipulatives Packet: • 2 Rays: ray A and ray BC	
		Graph points on a coordinate plane	Instructional Aids (Teacher's Toolkit	
		Recognize representations of points, lines, and planes in everyday life	CD): • Cumulative Review Answer Sheet (page	
50	Types of Lines	Graph points on a coordinate plane to form a line, intersecting lines, perpendicular lines, and parallel lines	IA9) for each student • Coordinate Plane (page IA24)	
		Identify lines: intersecting, perpendicular, parallel	• Coordinate Planes (page IA25)	
		• Use variables to represent coordinates on a coordinate plane	• Coordinate Planes (page IA25), 4 copies	
		Complete an input/output table Polete lines to real life situations	for each student	
	Classificing 0	Relate lines to real-life situations Identify and name rays and angles	Angles (page IA26)Angles (page IA26) for each student	
51	Classifying &	Classify angles: right, acute, obtuse, straight	Supplementary Angles (page IA27)	
•	Measuring Angles	Use a protractor to measure and draw angles	• Complementary Angles (page IA28)	
		Relate geometry to everyday life	• Complementary & Supplementary Angles	
	Angle Relationships	Develop an understanding of supplementary and	(page IA29)	
52	Angle Relationships	complementary angles	• Triangles (IA30 CD)	
		• Find the unknown measure of an angle in a pair of	• Triangles (IA30 CD) for each student	
		supplementary angles and in a pair of complementary angles	• Hierarchy of Quadrilaterals (page IA31)	
		Recognize angles: right, acute, obtuse, straight	• Quadrilaterals (page IA32)	
		Use a protractor to measure angles	• Quadrilaterals (page IA32) for each	
53	Polygons	Identify and name line segments	student	
55		Demonstrate an understanding of regular and irregular	• Polygon Angle Measure (page IA33) for each student (optional)	
		polygons	Congruent & Similar Polygons (page)	
		• Identify the number of sides and interior angles in a polygon	IA34)	
	Triangles	Graph points on a coordinate plane to form a polygon Develop the understanding that the sum of the measures of	Congruent & Similar Polygons (page)	
54	Triangles	the angles in a triangle equals 180°	IA34) for each student	
		• Find the unknown measure of an angle in a triangle	• Transformations (page IA35)	
		Classify triangles by their angles: right, acute, obtuse	Transformations (page IA35) for each student	
		Classify triangles by their sides: equilateral, isosceles,	• Block Letters (page IA36), one half page	
		scalene	for each pair of students	
	Over dellatanala	Measure the angles in a triangle using a protractor Distinction of the transport of the product of th	• Circle (page IA37)	
55	Quadrilaterals	Distinguish between regular and irregular quadrilaterals Develop an understanding of the classification of	• Polyhedrons (page IA38) for each student	
		quadrilaterals	Christian Worldview Shaping	
		• Develop the understanding that the sum of the angles in a	(Teacher's Toolkit CD):	
		quadrilateral equals 360°	• Pages 18–19	
		• Find the unknown measure of an angle in a quadrilateral	Other Teaching Aids:	
		Measure the angles in a quadrilateral using a protractor	 A blank page for display, for overlay with Coordinate Plane (page (IA24) 	
E.C.	Congruent & Similar	Identify congruent and similar polygons	• 2 lengths of string (each at least 1 yard in	
56	Figures	Identify corresponding angles and line segments	length)	
		Write a ratio for corresponding sides in a pair of polygons	• 2 sheets of colored paper (2 different	
		Draw congruent and similar polygons	colors)	
57	Transformations &	• Develop an understanding of transformations: translation,	• A small rectangular poster or teaching	
J I	Symmetry	rotation, reflection	chart	
		Identify a transformationDraw a transformed figure	• An overhead protractor	
		Identify symmetrical figures	• Chalk or markers (3 different colors)	
		Draw lines of symmetry on a figure	• Construction paper (at least 3 different	
	Circles	Find the length of the diameter of a circle given the radius	colors) • Tracing paper (optional)	
58		• Find the length of the radius of a circle given the diameter	• An object to represent each of the	

59	3-Dimensional Figures Chapter 6 Review	Identify parts of a circle: center, radius, chord, diameter, central angle Draw a circle using a protractor Measure the central angles of a circle using a protractor Relate fractions of a circle to degrees in a circle Make a circle graph to represent given data Develop an understanding of polyhedrons Identify 3-dimensonal figures that are not polyhedrons Classify 3-dimensional figures: spherical, conical, cylindrical Identify the number of faces, vertices, and edges in polyhedrons Construct polyhedrons Review	following: cone, cylinder, rectangular prism, sphere, square prism, square pyramid, triangular prism, triangular pyramid (optional) • A purchased set of 3-dimensional figures • Three 3 x 5 cards • A ruler for each student and the teacher • A brass fastener for each student and the teacher • A protractor for each student and the teacher • Graph paper for each student • 8 toothpicks or craft sticks for each student
61	Chapter 6 Test Cumulative Review	Compare fractions Multiply and divide decimals by a multiple of 10 Add and subtract fractions Identify kinds of angles and lines Find the unknown measure of an angle in a triangle Multiply by a 2-digit multiplier Identify a prime number Determine a common factor Find the missing subtrahend in a subtraction equation Add decimals and whole numbers Compare integers Use a chart to answer questions and to solve problems	 A sheet of notebook paper for each student A blank sheet of paper for each student Transparent tape for each student Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): Fact Review pages Application pages Calculator Activities

	T .	Chapter 7: Multiply Fractions & Deci	
esson	Topic	Lesson Objectives	Chapter Materials
62	Multiply Fractions	Multiply a whole number and a fraction	Teacher Manipulatives Packet:
UL.		• Multiply to find a fraction of a whole number	• Decimal Place Value Pocket Chart (B)
		Multiply to find a fraction of a fraction	• Fraction Kit
		Rename a whole number as an improper fraction	• Fraction Number Line (yellow)
		Write and solve an equation for a multiplication word	Student Manipulatives Packet:
		problem	Fraction Kit
63	Simplify	Multiply to find a fraction of a fraction	• Fraction Number Line (yellow)
03		Use cancellation when multiplying fractions	Instructional Aids (Teacher's Toolkit
		Identify the reciprocal of a fraction	CD):
		Write and solve an equation for a word problem	• Cumulative Review Answer Sheet (page
64	Multiply Mixed	Multiply mixed numbers	IA9) for each student
04	Numbers	• Rename an improper fraction as a mixed number	• Fraction Paper Folding (page IA39)
		Rename a mixed number as an improper fraction	(optional)
		Apply the Distributive Property of Multiplication over	• Decimal Grids (page IA40)
		Addition when multiplying mixed numbers	• In-Between Numbers (page IA41)
		• Use cancellation when multiplying mixed numbers	Christian Worldview Shaping
		Write and solve an equation for a word problem	(Teacher's Toolkit CD):
		Estimate products of mixed numbers and fractions	• Pages 20–21
CE	Multiply Decimals	Multiply a decimal by a decimal	Other Teaching Aids:
65	. ,	• Demonstrate an understanding of the relationship between	• 12 counters
		decimals and fractions	• A blank sheet of paper (unlined) for the
		• Estimate a decimal product by rounding to the nearest whole	teacher
		number or to the place of greatest value	• 2 blank sheets of paper (unlined) for each
		Apply the Distributive Property of Multiplication over	student
		Addition when multiplying decimals	• Colored markers: red and blue
		• Use mental math to multiply a decimal and a power of 10	Math 6 Tests and Answer Key
CC	More Multiplying	Multiply a decimal by a decimal	Optional (Teacher's Toolkit CD):
66	Decimals	• Demonstrate an understanding of the relationship between	• Fact Review pages
		decimals and fractions	 Application pages
		Annex zeros in the product	Calculator Activities
		Multiply money by a decimal	
		Estimate a decimal product by rounding	
	Between Numbers	Develop an understanding of our infinite number system	1
67		• Identify fractions and decimals that come between two	
		numbers	
		Solve a multi-step word problem	
	Chapter 7 Review	• Review	
68			
60	Chapter 7 Test	Find the unknown measure of an angle in a quadrilateral	1
69	Cumulative Review	• Identify the parts of a circle	
		Classify triangles: equilateral, isosceles, scalene	
		Solve money word problems	
		Add and subtract mixed numbers	
		• Identify the value of a digit in a decimal	
		Multiply fractions and decimals	
		• Read and interpret a double line graph	

	Chapter 8: Divide Fractions			
Lesson	Topic	Lesson Objectives	Chapter Materials	
70	Divide by a Fraction	 Demonstrate an understanding of dividing a whole number by a fraction and dividing a fraction by a fraction Divide a mixed number by a fraction Use a number line to solve a division equation with fractions Draw a diagram to solve a division equation with fractions Check a division problem using multiplication Write and solve an equation for a word problem 	Teacher Manipulatives Packet: • Fraction Kit Student Manipulatives Packet: • Fraction Kit Instructional Aids (Teacher's Toolkit CD): • Cumulative Review Answer Sheet (page	
71	Divide Fractions	 Demonstrate an understanding of dividing a fraction to find a quotient with a remainder Draw a diagram to solve a division equation with fractions Use a number line to solve a division equation with fractions Check a division problem using multiplication 	IA9) for each student • Multi-Step Word Problems (page IA42) Christian Worldview Shaping (Teacher's Toolkit CD): • Page 22	
72	Multiply by the Reciprocal	 Identify the reciprocal of a fraction Divide by multiplying by the reciprocal of the divisor Divide a fraction by a whole number Draw a diagram to solve a division word problem with fractions Check a division problem using multiplication Write related multiplication and division equations for a division problem with fractions 	Other Teaching Aids: Colored markers or chalk: 3 different colors Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): Fact Review pages Application pages Calculator Activities	
73	Mixed Numbers & Reciprocals	 Demonstrate an understanding of dividing mixed numbers Divide mixed numbers by multiplying by the reciprocal of the divisor Check a division problem using multiplication Draw a diagram to solve a division word problem with a mixed number Use a number line to solve a division word problem with a mixed number Solve fraction word problems 		
74	Multi-Step Equations	Write and solve a multi-step equation for a multi-step word problem Demonstrate an understanding of the Order of Operations		
75	Properties	 Apply mathematical properties to evaluate an expression with fractions Use the Order of Operations to evaluate an expression Substitute a given value for a variable in an expression 		
76	More Multi-Step Word Problems	 Use the Order of Operations to write and solve a multi-step equation for a multi-step word problem Determine whether a multi-step problem has too much or too little information 		
77	Chapter 8 Review	• Review		
78	Chapter 8 Test Cumulative Review	 Add integers Complete a number sequence Determine an equivalent expression Evaluate an expression with more than one operation Read and interpret a double line graph 		

	Chapter 9: Divide Decimals			
Lesson	Topic	Lesson Objectives	Chapter Materials	
79	Divide Decimals	 Divide a decimal by a 1-digit whole number Estimate the quotient of a decimal division problem Check a division problem using multiplication Annex a zero to rename a decimal Divide a decimal by a power of 10 using mental math 	Teacher Manipulatives Packet: Place Value Kit Number Line Instructional Aids (Teacher's Toolkit CD):	
80	Estimate	 Divide a decimal by a 1- or a 2-digit whole number Estimate the quotient of a decimal division problem Divide a whole number by a whole number to find a decimal fraction in the quotient Check a division problem using multiplication Solve a decimal word problem 	Cumulative Review Answer Sheet (page IA9) for each student Input/Output Tables (page IA43) Input/Output Tables (page IA43) for each student Dividing Decimals (page IA44)	
81	Repeating Decimals	 Divide a decimal by a 1- or a 2-digit whole number Estimate the quotient of a decimal division problem Develop an understanding of terminating decimals and repeating decimals Recognize a repeating decimal in the quotient Divide a whole number by a whole number to find a decimal fraction in the quotient Write an equation for a word problem Solve money word problems 	Dividing Decimals (page IA44) for each student Christian Worldview Shaping (Teacher's Toolkit CD): Pages 23–24 Other Teaching Aids: A calculator for each student Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD):	
82	Fractions as Decimals	 Rename a fraction as a decimal by renaming the denominator as a power of 10 Rename a fraction as a decimal using division Identify a quotient as a repeating decimal or a nonrepeating, non-terminating decimal Compare a decimal and a fraction 	Fact Review pagesApplication pagesCalculator Activities	
83	Divide by a Decimal	Divide a whole number by a decimal Write an equation for a word problem		
84	More Dividing Decimals	 Divide a whole number by a decimal Divide a decimal by a decimal Solve money word problems Complete an input/output table 		
85	Real Numbers	Develop an understanding of real numbersApply addition and multiplication properties to real numbers		
86	Chapter 9 Review	• Review		
87	Chapter 9 Test Cumulative Review	Solve word problems Read a Venn diagram Demonstrate an understanding of the parts of a circle Find the perimeter of a square Determine whether two polygons are congruent or similar Find the unknown measure of an angle in a triangle Identify a triangle according to its angles Read and interpret a line graph		

	Chapter 10: Equations			
Lesson	Topic	Lesson Objectives	Chapter Materials	
88	Expressions	 Write a numerical or an algebraic expression for a word phrase Demonstrate an understanding of algebraic expressions with more than one operation Evaluate an expression using substitution Use the Order of Operations to evaluate expressions 	Teacher Manipulatives Packet:	
89	Equations	 Demonstrate an understanding of equations Write an equation with two equal expressions Determine the unknown in a word problem and write it as a variable in an equation Evaluate and relate expressions using >, <, or = 	Variable Cards Instructional Aids (Teacher's Toolkit CD): Cumulative Review Answer Sheet (page IA9) for each student	
90	Simplify Expressions	Demonstrate an understanding of the Commutative and Associative Properties of Addition and of Multiplication Simplify algebraic expressions using manipulatives Apply the Commutative and Associative Properties to simplify algebraic expressions	 Variable Cards (page IA45) (optional) Equation Mat (page IA46) Graph an Equation (page IA47) Graph an Equation (page IA47) for each student 	
91	Addition & Subtraction Equations	Solve addition and subtraction equations using inverse operations Check addition and subtraction equations using substitution	Christian Worldview Shaping (Teacher's Toolkit CD): • Pages 25–27	
92	Multiplication Equations	Solve multiplication equations using division (the inverse operation) Check multiplication equations using substitution Write an equation with a variable to solve a word problem	Other Teaching Aids: • Round counters for each student and the teacher Math 6 Tests and Answer Key	
93	Multiplication & Division Equations	 Solve multiplication and division equations using inverse operations Check multiplication and division equations using substitution Write an equation with a variable to solve a word problem Demonstrate an understanding of inequalities Picture an inequality on a number line Determine whether a given number is a solution to an inequality 	Optional (Teacher's Toolkit CD): • Fact Review pages • Application pages • Calculator Activities	
94	Equivalent Expressions	 Demonstrate an understanding of the Distributive Property of Multiplication over Addition Apply the Distributive Property of Multiplication over Addition to find equivalent expressions Solve equations using inverse operations 		
95	Distance = Rate × Time	 Calculate the distance traveled given the rate and the time, the rate of travel given the distance and the time, and the time traveled given the distance and the rate Complete a table using the formula d = r × t Create a line graph relating to the formula d = r × t 		
96	Chapter 10 Review	• Review		
97	Chapter 10 Test Cumulative Review	 Read and interpret a bar graph Identify plane figures when given the characteristics Determine the perimeter of a figure Solve a fraction word problem Add, multiply, and divide fractions Find a missing factor Identify the reciprocal of a fraction Multiply and divide decimals Determine the value of an expression Determine the lowest term of a fraction or a mixed number 		

	Chapter 11: Perimeter & Area			
Lesson	Topic	Lesson Objectives	Chapter Materials	
98	Perimeter	Calculate the perimeter of a polygon using a formula Calculate the unknown length of a side of a polygon Solve an algebraic expression to find the perimeter of a rectangle	 Teaching Visuals (Teacher's Toolkit CD): Chart 6: Polygons Chart 7: Center Points, Radii & Diameters Chart 8: Chords & Central Angles 	
99	Circumference	Develop an understanding of the relationship between the diameter and the circumference of a circle Calculate the circumference of a circle using a formula Calculate the diameter of a circle given the circumference Relate circumference to real-life situations	Chart 9: Area Instructional Aids (Teacher's Toolkit CD): Cumulative Review Answer Sheet (page IA9) for each student Graph Paper (page IA13)	
100	Area of Rectangles, Squares & Parallelograms	 Calculate the area of rectangles, squares, and parallelograms using a formula Calculate the area of a complex figure Calculate the unknown side (length or width) of a rectangle or a square Relate area to real-life situations 	 Graph Paper (page IA13) for each student Find the Circumference (page IA48) Find the Circumference (page IA48) for each student Area: Rectangles, Squares & Parallelograms (page IA49) 	
101	Area of Triangles	 Calculate the area of triangles using a formula Calculate the area of a complex figure Calculate the unknown height or base of a triangle Relate area to real-life situations 	 Area: Rectangles, Squares & Parallelograms (page IA49) for each student Area: Triangles (page IA50) Area: Triangles (page IA50) for each student 	
102	Area of Circles	 Calculate the area of a circle using a formula Estimate the area of a circle Relate area to real-life situations 	Area: Circles (page IA51) Area: Circles (page IA51) for each student Surface Area: Triangular Prism (page IA52)	
103	Surface Area of Prisms	 Name the 3-dimensional figure that can be formed from a net Calculate the surface area of rectangular, square, and triangular prisms using formulas Construct a triangular prism Relate surface area to real-life situations 	 Surface Area: Triangular Prism (page IA52) for each student Surface Area (page IA53) Surface Area (page IA53) for each student Floor Plan Activity (page IA54) Floor Plan Activity (page IA54) for each pair 	
104	Surface Area of Cylinders	 Calculate the surface area of rectangular, square, and triangular prisms using formulas Calculate the surface area of a cylinder using formulas Construct a cylinder net Relate surface area to real-life situations 	of students • Floor Plan Grid (page IA55) for each pair of students • Geometry Review I (page IA56) • Geometry Review II (page IA57)	
105	Fixed Areas	 Recognize that perimeter can vary for a fixed area Calculate the area and perimeter of a rectangle Calculate the area of a complex figure Create a basic floor plan from a fixed area Relate geometry to real-life situations 	Nets (page IA58) Christian Worldview Shaping (Teacher's Toolkit CD): Pages 28–29 Other Teaching Aids:	
106	Chapter 11 Review	• Review	• A cereal box (rectangular prism) for every 2 to 3 students and the teacher	
107	Chapter 11 Test Cumulative Review	Identify prime and composite numbers Use the guess-and-check strategy to solve problems Identify equivalent expressions Estimate products and sums Identify all the factors of a number Add and multiply decimals Determine the value of a variable Read and interpret a pictograph Read and interpret a Venn Diagram	 A 12-inch length of string for each pair of students A cylindrical object, such as a can or mug, for each pair of students A cylinder (potato chip container with top, a can, or similar object) for each student A small oatmeal container (optional) A classroom set of 3-dimensional objects (See Lesson 59.) A sheet of 12 × 18 construction paper for each pair of students 1–2 sheets of construction paper for each student Two 12 × 18 sheets of construction paper A calculator for each student A ruler for each student and the teacher 	

Transparent tape for each student and the teacher Math 6 Tests and Answer Key
Optional (Teacher's Toolkit CD): • Fact Review pages • Application pages • Calculator Activities

		Chapter 12: Volume	
Lesson	Topic	Lesson Objectives	Chapter Materials
108	Volume of Rectangular Prisms	Develop an understanding of volume Find the volume of a rectangular prism using a model Calculate the volume of a rectangular prism using a formula Relate volume to real-life situations	 Instructional Aids (Teacher's Toolkit CD): Cumulative Review Answer Sheet (page IA9) for each student Triangular Prisms & Cylinders (page IA59)
109	Volume of Cubes	Develop an understanding of the volume of a cube (square prism) Find the volume of a cube using a model Calculate the volume of a cube using a formula Calculate the unknown measurement of a rectangular prism Relate volume to real-life situations	Fixed Volume (page IA60) Fixed Volume (page IA60) for each group of students Volume Review (page IA61) Volume Review (page IA61) for each student Volume Word Problems, page IA62
110	Volume of Other 3-D Figures	 Find the volume of an irregular prism using a model Calculate the volume of a triangular prism and of a cylinder using formulas Relate volume to real-life situations 	Christian Worldview Shaping (Teacher's Toolkit CD): • Page 30 Other Teaching Aids:
111	Fixed Volumes & Fixed Lateral Surfaces	Recognize that surface area can vary for a fixed volume Calculate the volume and the lateral surface area of a rectangular prism and of a cylinder using formulas Recognize that volume can vary for a fixed lateral surface area	 A clear storage container with lid (shoebox size) Cube-shaped blocks Several 8 ½ × 11 blank sheets of paper A rectangular prism-shaped block
112	Chapter 12 Review	• Review	A clear cube-shaped container with lid A calculator for each student
113	Chapter 12 Test Cumulative Review	 Add, subtract, multiply, and divide whole numbers, decimals, and fractions Rename a fraction as a decimal Identify the ordered pair for a point on a coordinate plane Determine the radius and the diameter of a circle Identify the formula used to find the area of a circle Identify geometric figures: a parallelogram, parallel lines, perpendicular lines Classify angles as <i>acute</i>, <i>obtuse</i>, or <i>right</i> Read and interpret a line plot 	 A ruler for each student and the teacher Four 9 × 12 sheets of construction paper for each group of students and the teacher Transparent tape for each group of students and the teacher 6 cups of rice, unpopped popcorn, or dried beans for each group of students and the teacher A box lid or rectangular pan for each group of students and the teacher A 1-cup liquid measuring cup for each group of students and the teacher Math 6 Tests and Answer Key
			Optional (Teacher's Toolkit CD): • Fact Review pages • Application pages • Calculator Activities

	Chapter 13: Ratios, Proportions & Percents			
Lesson	Topic	Lesson Objectives	Chapter Materials	
114	Ratios & Rates	Write a ratio in three forms: word form, ratio form, fraction form Write ratios to describe part-to-part, part-to-whole, and whole-to-part comparisons Find equivalent ratios Determine the unit rate Find an equivalent ratio using the unit rate Use ratios to represent real-life situations and to solve problems	Teacher Manipulatives Packet:	
115	Ratio Tables	Complete a ratio table Find equivalent ratios Make a ratio table Solve problems using ratio tables Use ratios to represent real-life situations and to solve problems	 Graph Paper (page IA13) for each student Parent Letter (page IA63), a half page for each student Pictured Ratios (page IA64) Ratio Tables (page IA65) Missing Measurements (page IA66) 	
116	Solving Proportions	 Develop an understanding of proportions using models Determine whether two ratios are proportional Solve for a missing term in a proportion Use ratios to represent real-life situations and to solve problems 	Percent (page IA67) Percent Models: Find the Part (page IA68) Percent Models: Find the Whole (page IA69) Circle Graph: Elements in the Earth's Crust (page IA70)	
117	Similar Figures	Develop an understanding of proportions in similar figures Solve for a missing term in a proportion Find the unknown measure in similar figures using proportions Use indirect measurement to find the unknown measure in similar objects Use ratios to represent real-life situations and to solve problems	 (page IA70) Christian Worldview Shaping (Teacher's Toolkit CD): Pages 31–32 Other Teaching Aids: A map Samples of floor plans Modeling clay A calculator for each student 	
118	Scale	 Find actual measurements using a scale and a scale drawing, map, or model Determine the unknown measure on a scale drawing given the scale and the actual measurement Solve word problems using ratios 	 A map for each group of students (optional) A ruler for each student and the teacher A straight edge for each student and the teacher (optional) 	
119	Percent	 Develop an understanding of percent using models Express percents as ratios, decimals, and fractions in lowest terms Express decimals and fractions as percents Compare percents to decimals and fractions using >, <, or = Solve percent word problems using proportions 	Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): • Fact Review pages • Application pages • Calculator Activities	
120	Finding Percent of a Number	Find a percent of a number using an equation, a model, and a proportion Solve percent word problems		
121	Finding the Unknown Whole	Find the unknown whole in a percent problem using a model, an equation, and a proportion Solve percent word problems		
122	Speed, Distance & Time	 Calculate the distance given the rate of speed and the time, the rate of speed given the distance and the time, and the time given the distance and the rate of speed Rename to calculate distance, rate of speed, or time Find an equivalent rate using a proportion 		
123	Chapter 13 Review	• Review		
124	Chapter 13 Test Cumulative Review	 Read and interpret a circle graph Solve word problems Simplify square roots, exponents, and expressions 		

Solve for a missing term in a proportion Calculate the area of a complex figure	
Calculate the circumference of a circleCalculate the volume of a cylinder	
• Identify the equation for the area of a rectangular prism and a triangle	

	Chapter 14: Measurement		
Lesson	Topic	Lesson Objectives	Chapter Materials
125	Linear Measurement	• Demonstrate an understanding of linear units: <i>inch</i> , <i>foot</i> , <i>yard</i> , and <i>mile</i>	Teaching Visuals (Teacher's Toolkit CD):
		Estimate measurements using benchmarks	• Chart 10: Customary Measurement
		Measure to the nearest inch, half inch, fourth inch, eighth inch, and sixteenth inch	• Chart 11: Metric Measurement
		Convert linear measurements to smaller or larger units	Chart 12: Metric Measurement: Length & Distance
		• Find a fraction of a measurement unit	• Chart 13: Metric Measurement: Capacity
		Add and subtract linear measurements	• Chart 14: Metric Measurement: Mass
	Weight & Capacity	Demonstrate an understanding of units of weight: <i>pound</i> ,	• Chart 15: Customary & Metric
126	Troigin a capacity	ounce, and ton	Conversions
		Read a spring scale	Chart 16: Time Measurement
		• Demonstrate an understanding of units of capacity: <i>fluid</i> ounce, cup, pint, quart, and gallon	Teacher Manipulatives Packet: • Measurement Flashcards
		Convert weight and capacity measurements to smaller or	• Rulers: Measuring Tape (meter)
		larger units	• Rulers: Inch Ruler (sixteenths),
		• Find a fraction of a measurement unit	Centimeter Ruler, and Measuring Tape
		Add and subtract weight and capacity measurements	(yard) (optional)
127	Metric Linear	• Develop an understanding of the metric system	• Thermometer
	Measurement	• Develop an understanding of metric linear units: <i>kilometer</i> , <i>meter</i> , <i>centimeter</i> , and <i>millimeter</i>	Red Strip Boiling Point steam cloud
		• Estimate and measure to the nearest meter, centimeter, and	• Clock (optional)
		millimeter	Student Manipulatives Packet:
		Determine the appropriate linear unit	Place Value Kit
		• Convert metric linear measurements to smaller or larger units	Measurement Flashcards
		• Find a fraction of a measurement unit	• Rulers: Measuring Tapes (yard and meter)
		• Compare metric linear measurements using > or <	• Rulers: Inch Ruler (sixteenths), and
		Add and subtract metric linear measurements	Centimeter Ruler (optional)
128	Metric Capacity & Mass	Develop an understanding of metric units of capacity: liter and milliliter	• Thermometer • Red Strip
	IVIASS	• Develop an understanding of metric units of mass: <i>gram</i> ,	• Clock
		kilogram, and milligram	Instructional Aids (Teacher's Toolkit
		Convert metric capacity and mass measurements to smaller	CD):
		or larger units	Cumulative Review Answer Sheet (page
		Add and subtract metric capacity and mass measurements	IA9) for each student
129	Customary &	• Add, subtract, multiply, and divide measurements	Customary Measurement Craze (page IA71)
120	Metric	Solve measurement word problems Find a fraction of a measurement	Metric Measure Mania (page IA72) for
	Fahrenheit &	Recognize <i>degree</i> as a measuring unit for temperature	each group of students
130	Celsius	• Recognize that °C represents degrees Celsius and	Customary Measurement Word Problems
	Ceisius	°F represents degrees Fahrenheit	(page IA73)
		Identify standard Celsius and Fahrenheit temperatures	Metric Measurement Word Problems
		• Determine the more reasonable temperature	(page IA74) (optional)
		• Read and set a Celsius and a Fahrenheit thermometer	• Temperature Hunt (page IA75) for each
		• Determine the amount of increase or decrease between two	group of students • Double-Scale Thermometer (page IA76)
		temperatures	• Double-Scale Thermometer (page IA76)
		Measure temperature using a thermometer	for each student
		Convert temperatures: Celsius to Fahrenheit and Fahrenheit to Celsius	• Time Zones of the World (page IA77)
404	Relate Customary	Recognize approximate equivalencies between customary	• Time Zones of the World (page IA77) for each student
131	& Metric Units	and metric units of measurement	• Time Zones (page IA78)
		Compare customary and metric measurements	• Map Key (page IA79)
		Estimate conversions between customary and metric	Christian Worldview Shaping
	T. II 0	measurements	(Teacher's Toolkit CD):
132	Telling &	Identify equivalent units of time Tall and write time to the minute	• Pages 33–34
	Renaming Time	Tell and write time to the minute	

		Differentiate between AM and PM	Other Teaching Aids:
		Develop an understanding of a 24-hour clock	• A ruler for each student and the teacher
		Convert units of time to smaller or larger units	• A transparent ruler
		• Find a fraction of a unit of time	• A yardstick
		Add and subtract time	A tape measure
400	Elapsed Time &	Demonstrate an understanding of world time zones	A spring scale
133	Time Zones	Determine the elapsed time	• A 1-lb loaf of bread with 16 1-oz slices or
		Add and subtract time	1 lb of cheese with 16 1-oz slices
404	Rename Units of	Estimate customary and metric measurements of objects	Objects to be weighed
134	Measure	Convert measurements to smaller or larger units	• Containers: four 1-cup, four 1-pint, four 1-
		Compare customary and metric units of measurement	quart, two 1-gallon
		Add, subtract, multiply, and divide measurements	• 2 gallons of water
		Solve measurement word problems	• A meter stick
		Determine mileage using a map scale	Clearview Liter Cube Set
		• Convert temperatures: Celsius to Fahrenheit and Fahrenheit	• A 1-liter beaker or metric measuring
		to Celsius	container
		Identify standard temperatures	A balance or a metric scale
		Determine the time in various time zones	• A 1-liter bottle of water for each student
425	Unit Multipliers	Write an equivalency as a unit multiplier	and the teacher
135	-	Determine the missing term in a unit multiplier	Objects that fit in your hand
		Convert measurements using a unit multiplier	• 6 thermometers of various types
420	Chapter 14 Review	• Review	• Judy Clock
136			• A toy that changes shape for each group of students
40-	Chapter 14 Test	Read and interpret a line graph	
137	Cumulative Review	• Round numbers to a given place	Math 6 Tests and Answer Key
		• Estimate a quotient or a sum	Optional (Teacher's Toolkit CD):
		Simplify an expression using substitution	• Fact Review pages
		• Determine the value of a variable in an expression or an	Application pages Cala later Activities
		equation	Calculator Activities
		Identify common factors and common multiples of two	
		numbers	
		Demonstrate an understanding of a circle: diameter, radius,	
		and chord	

	Chapter 15: Statistics			
Lesson	Topic	Lesson Objectives	Chapter Materials	
138	Statistics	Complete a frequency table using given data Determine the range, median, and mode for a set of data	Teaching Visuals (Teacher's Toolkit CD): • Chart 17: Histogram	
		• Calculate the mean for a set of data	• Chart 18: Box-and-Whisker Plot	
400	Double Bar &	Read and interpret a double bar graph and a double line	Instructional Aids (Teacher's Toolkit CD):	
139	Double Line	graph	Cumulative Review Answer Sheet (page IA9)	
	Graphs	Determine the range, median, and mode for a set of data	for each student	
		Calculate the mean for a set of data	• Frequency Tables (page IA80)	
140	Stem-and-Leaf	Read and interpret a stem-and-leaf plot	• Frequency Tables (page IA80) for each student	
170	Plots	• Complete a stem-and-leaf plot	Double Bar Graph (page IA81)Double Bar Graph (page IA81) for each student	
		Determine the range, median, and mode for a set of data Calculate the mean for a set of data	Double Bar Graph (page IA81) for each student Double Line Graph (page IA82)	
	Line Plots	Read and interpret a line plot	• Double Line Graph (page IA82) • Double Line Graph (page IA82) for each	
141	Line Flots	Record data on a line plot	student	
		Demonstrate an understanding of a cluster, a gap, and an	Stem-and-Leaf Plot (page IA83)	
		outlier	Stem-and-Leaf Plot (page IA83) for each	
		Determine the effects of an outlier	student	
142	Histograms	Read and interpret a histogram	• Line Plot (page IA84)	
142		Complete a frequency table using given data	• Line Plot (page IA84) for each student	
		Construct a histogram using given data	Histogram (page IA85) Histogram (page IA85) for each student	
143	Box-and-Whisker	Develop an understanding of box-and-whisker plots	Box-and-Whisker Plot (page IA86)	
173	Plot	Determine the lower, middle, and upper quartiles of a set of data	Box-and-Whisker Plot (page IA86) for each	
		Construct a box-and-whisker plot using given data	student	
	Graph Review	Read and interpret graphs: double bar graph, double line	Graph: Double Bar Graph, page IA87 (CD)	
144	Graph Neview	graph, stem-and-leaf plot, line plot, histogram, box-and-	• Graph: Double Line Graph, page IA88 (CD)	
		whisker plot	Stem-and-Leaf Plot & Line Plot, page IA89	
145	Compare Graphs	Calculate the mean for a set of data	(CD)	
145		Determine the range, median, and mode for a set of data	• Graph: Histogram, page IA90 (CD)	
		• Record data in a frequency table	Graph: Box-and-Whisker Plot, page IA91 (CD) Data (page IA92)	
	<u> </u>	Choose a graph to display a set of data	• Data (page IA92) • Data (page IA92) for each student	
146	Chapter 15	• Review	Christian Worldview Shaping (Teacher's	
140	Review	A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Toolkit CD):	
147	Chapter 15 Test	Add, subtract, multiply, and divide whole numbers, decimals, and fractions	• Page 35	
	Cumulative	• Find the value of a variable in an equation	Other Teaching Aids:	
	Review	Add customary measurements	A calculator for each student	
		Convert customary measurements	• A ruler for each student and the teacher	
		• Express a percent as a fraction in lowest terms	Math 6 Tests and Answer Key	
		• Find the decimal equivalent of a fraction	Optional (Teacher's Toolkit CD):	
		• Identify the value of a digit in a decimal	• Fact Review pages	
		Round to estimate the difference	Application pages Calculator Activities	
		• Express a fraction as a percent	- Calculator Activities	
		Measure a line to the nearest sixteenth inch		
		• Identify a chord and a diameter in a circle		
		• Find the unknown measure of an angle in a pair of supplementary angles and in a triangle		
		Calculate the volume of a cylinder		

		Chapter 16: Probability	
Lesson	Topic	Lesson Objectives	Chapter Materials
148	Theoretical Probability	 Develop an understanding of probability Write probability as a fraction, a decimal, and a percent Find the theoretical probability of an event and its complement 	Instructional Aids (Teacher's Toolkit CD): • Cumulative Review Answer Sheet (page IA9) for each student • Probability (page IA93)
149	Sample Spaces	 Find the sample space for and the probability of an event Make a tree diagram to list the sample space for an event Determine the number of possible outcomes using the Multiplication Counting Principle Find the theoretical probability of an event 	 Probability (page IA93) for each student Theoretical Probability (page IA94) Sample Spaces (page IA95) Tree Diagram (page IA96) Tree Diagram (page IA96) for each student
150	Experimental Probability	 Find the theoretical probability of an event Predict the results of an experiment using the theoretical probability of an event Conduct a probability experiment Find the experimental probability of an event Create a line plot for the results of an experiment 	 Multiplication Counting Principle (page IA97) Experimental Probability (page IA98) Experimental Probability (page IA98) for each student Spinning Penny Experiment (page IA99) for each pair of students (optional)
151	Fair or Unfair?	 Determine whether a game is fair or unfair using probability Conduct a probability experiment Find the experimental probability and the theoretical probability of an event List the sample space for an event Make predictions using probability 	Fair or Unfair Games (page IA100) Fair or Unfair Games (page IA100) for each group of students (optional) Probability Spinner (page IA101) Probability Spinner (page IA101) for each student
152	Independent & Dependent Events	 Differentiate between independent and dependent compound events Find the probability of compound events using a formula 	Christian Worldview Shaping (Teacher's Toolkit CD): • Pages 36
153	Chapter 16 Review	• Review	Other Teaching Aids: • Colored markers: red and blue
154	Chapter 16 Test Cumulative Review	 Identify the standard form of a number written in exponent form Round a decimal to a given place Estimate the location of a fraction on a number line Classify figures as congruent Identify the type of triangle Solve measurement and money word problems Find the mean of data on a chart Find the unknown measure for similar figures Find an equivalent fraction or ratio Determine the least common multiple Divide fractions and whole numbers Estimate the sum of mixed numbers Simplify an expression using the Order of Operations Multiply decimals Read and interpret a stem-and-leaf plot 	Colored pencils or crayons: red and blue for each student A calculator (optional) for each student A paper clip for each student and the teacher A penny for every two students (optional) G Unifix Cubes: 4 orange, 1 brown, 1 yellow An opaque bag Two 1–6 number cubes Two 1–6 number cubes for each group of students (optional) Math 6 Tests and Answer Key Optional (Teacher's Toolkit CD): Fact Review pages Application pages Calculator Activities

	Chapter 17: Statistics			
Lesson	Topic	Lesson Objectives	Chapter Materials	
155	Integers	 Demonstrate an understanding of integers Find the absolute value of a number Compare and order integers 	Teacher Manipulatives Packet: • Thermometer • Red Strip	
156	Add Integers	Add integers using manipulativesAdd integers using a number lineWrite an addition equation for a word problem	Student Manipulatives Packet: • Algebra Mat Kit • Thermometer	
157	Subtract Integers	 Subtract integers using manipulatives Subtract integers using a number line Write a subtraction equation for a word problem 	• Red Strip Instructional Aids (Teacher's Toolkit CD): • Positive & Negative Number Line (page IA4)	
158	Add & Subtract Integers	 Subtract integers Add and subtract integers using a number line and manipulatives Demonstrate an understanding of the relationship between subtracting an integer and adding its opposite Write an equation for a word problem 	Cumulative Review Answer Sheet (page IA4) Coordinate Plane (page IA24) Coordinate Planes (page IA25) for each student Algebra Mat (page IA102) Positive & Negative Number Lines (page	
159	More Integers	 Solve real-life word problems Add and subtract integers Write an equation for a word problem 	IA103) 2 copies for each student • Subtraction Patterns (page IA104) • Subtraction Patterns (page IA104) for each	
160	Multiply Integers	Multiply integers using manipulatives Write an equation for a word problem	student • More Subtraction Patterns (page IA105)	
161	Multiply & Divide Integers	Multiply and divide integers Write an equation for a word problem	 • Multiplication Patterns (page IA106) • Order of Operations (page IA107) • Order of Operations (page IA107) for each 	
162	Mixed Review	 Add, subtract, multiply, and divide integers Subtract integers by adding the opposite Apply the order of operations to integers 	student Christian Worldview Shaping (Teacher's Toolkit CD):	
163	Coordinate Plane	 Graph points on a four-quadrant coordinate plane Write ordered pairs to identify points on a four-quadrant coordinate plane 	 Page 37–39 Other Teaching Aids: Plastic counters: opaque (to appear black when 	
164	Chapter 17 Review	• Review	placed on the Algebra Mat) and transparent red Math 6 Tests and Answer Key	
165	Chapter 17 Test Cumulative Review	 Read and interpret a double line graph Identify the geometric figure Find the area of a parallelogram Find the surface area and volume of a rectangular prism Calculate the unknown measure of an angle Estimate an answer Solve fraction problems 	Optional (Teacher's Toolkit CD): • Fact Review pages • Application pages • Calculator Activities	