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 correlated to the

Kentucky Academic Standards for Mathematics (2019)

Grade 6

Module/Lesson	Name	From page	To page	Citations
Module 1: Integer Concepts				
Lesson 1.1	Identify and Interpret Integers	5	12	SMP.1; SMP.2; SMP.3; SMP.4; SMP.7; KY.6.NS.5; KY.6.NS.6
Lesson 1.2	Compare and Order Integers on a Number Line	13	20	SMP.1; SMP.2; SMP.3; KY.6.NS.7
Lesson 1.3	Find and Apply Absolute Value	21	26	SMP.1; SMP.2; SMP.3; KY.6.NS.7
Module 2: Rational Number Concepts				
Lesson 2.1	Interpret Rational Numbers	31	36	SMP.1; SMP.2; SMP.3; SMP.5; SMP.7; KY.6.NS.6; KY.6.NS.7
Lesson 2.2	Compare Rational Numbers on a Number Line	37	42	SMP.1; SMP.2; SMP.3; SMP.5; KY.6.NS.6; KY.6.NS.7
Lesson 2.3	Find and Apply LCM and GCF	43	50	SMP.1; SMP.2; SMP.3; SMP.4; SMP.7; KY.6.NS.4; KY.6.NS.7

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Lesson 2.4	Order Rational Numbers	51	56	SMP.1; SMP.2; SMP.3; KY.6.NS.7
Module 3: Fraction Division				
Lesson 3.1	Understand Fraction Division	61	68	SMP.1; SMP.2; SMP.3; SMP.4; KY.6.NS.1
Lesson 3.2	Explore Division of Fractions with Unlike Denominators	69	76	SMP.1; SMP.2; SMP.3; SMP.4; KY.6.NS.1
Lesson 3.3	Explore Division of Mixed Numbers	77	84	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.NS.1
Lesson 3.4	Practice and Apply Division of Fractions and Mixed Numbers	85	90	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.NS.1
Lesson 3.5	Practice Fraction Operations	91	98	SMP.3; SMP.6; KY.6.NS.1; KY.6.NS.4
Module 4: Fluency with Multi-Digit Decimal Operations				
Lesson 4.1	Add and Subtract Multi-Digit Decimals	103	108	SMP.1; SMP.2; SMP.3; SMP.7; KY.6.NS.3
Lesson 4.2	Multiply Multi-Digit Decimals	109	114	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.NS.3
Lesson 4.3	Divide Multi-Digit Whole Numbers	115	120	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.NS.2
Lesson 4.4	Divide Multi-Digit Decimals	121	126	SMP.1; SMP.2; SMP.3; SMP.6; SMP.7; KY.6.NS.3

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Lesson 4.5	Apply Operations with Multi-Digit Decimals	127	132	SMP.1; SMP.2; SMP.3; KY.6.NS.3
Module 5: Ratios and Rates				
Lesson 5.1	Understand the Concept and Language of Ratios	139	144	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.RP.1
Lesson 5.2	Represent Ratios and Rates with Tables and Graphs.	145	152	SMP.1; SMP.2; SMP.3; KY.6.RP.2; KY.6.RP.3
Lesson 5.3	Compare Ratios and Rates	153	158	SMP.1; SMP.2; SMP.3; KY.6.RP.3
Lesson 5.4	Find and Apply Unit Rates	159	166	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.RP.2; KY.6.RP.3
Lesson 5.5	Solve Ratio and Rate Problems Using Proportional Reasoning	167	174	SMP.1; SMP.2; SMP.3; SMP.7; KY.6.RP.3
Module 6: Apply Ratios and Rates to Measurement				
Lesson 6.1	Use Ratio Reasoning with Circle Graphs	179	184	SMP.1; SMP.2; SMP.3; SMP.6; SMP.8; KY.6.RP.3
Lesson 6.2	Use Rate Reasoning to Convert Within Measurement Systems	185	192	SMP.1; SMP.2; SMP.3; KY.6.RP.3
Lesson 6.3	Use Rate Reasoning to Convert Between Measurement Systems	193	200	SMP.1; SMP.2; SMP.3; KY.6.RP.3
Module 7: Understand and Apply Percent				
Lesson 7.1	Understand, Express, and Compare Percent Ratios	205	212	SMP.1; SMP.2; SMP.3; SMP.6

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Lesson 7.2	Use Strategies to Find a Percent of a Quantity	213	220	SMP.1; SMP.2; SMP.3; SMP.6; SMP.8
Lesson 7.3	Solve a Variety of Percent Problems	221	226	SMP.1; SMP.2; SMP.3; SMP.6
Module 8: Numerical and Algebraic Expressions				
Lesson 8.1	Understand and Apply Exponents	233	238	SMP.1; SMP.2; SMP.3; SMP.8; KY.6.EE.1
Lesson 8.2	Write and Evaluate Numerical Expressions for Situations	239	246	SMP.1; SMP.2; SMP.3; SMP.7; SMP.8; KY.6.EE.1; KY.6.EE.2
Lesson 8.3	Write Algebraic Expressions to Model Situations	247	252	SMP.1; SMP.2; SMP.3; SMP.5; KY.6.EE.2; KY.6.EE.6
Lesson 8.4	Interpret and Evaluate Algebraic Expressions	253	260	SMP.1; SMP.2; SMP.3; SMP.7; KY.6.EE.2
Lesson 8.5	Identify and Generate Equivalent Algebraic Expressions	261	268	SMP.3; SMP.5; SMP.7; KY.6.EE.3; KY.6.EE.4
Module 9: Solve Problems Using Equations and Inequalities				
Lesson 9.1	Write Equations to Represent Situations	273	278	SMP.1; SMP.2; SMP.3; SMP.4; SMP.6; KY.6.EE.5; KY.6.EE.7
Lesson 9.2	Use Addition and Subtraction Equations to Solve Problems	279	286	SMP.1; SMP.2; SMP.3; SMP.4; KY.6.EE.7
Lesson 9.3	Use Multiplication and Division Equations to Solve Problems	287	294	SMP.1; SMP.2; SMP.3; SMP.4; SMP.5; KY.6.EE.7

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Lesson 9.4	Use One-Step Equations to Solve a Variety of Problems	295	300	SMP.1; SMP.2; SMP.3; SMP.4; KY.6.EE.7
Lesson 9.5	Write and Graph Inequalities	301	308	SMP.3; KY.6.EE.5; KY.6.EE.8
Module 10: Real-World Relationships Between Variables				
Lesson 10.1	Represent Equations in Tables and Gr	313	320	SMP.1; SMP.2; SMP.3; SMP.4; KY.6.EE.9
Lesson 10.2	Write Equations from Verbal Descriptions	321	326	SMP.1; SMP.2; SMP.3; SMP.4; SMP.7; KY.6.EE.9
Lesson 10.3	Write Equations from Tables and Graphs	327	334	SMP.1; SMP.2; SMP.3; SMP.4; SMP.7; SMP.8; KY.6.EE.9
Module 11: Polygons on the Coordinate Plane				
Lesson 11.1	Graph Rational Numbers on the Coordinate Plane	341	348	SMP.1; SMP.2; SMP.3; SMP.6; SMP.7; KY.6.NS.6
Lesson 11.2	Graph Polygons on the Coordinate Plane	349	356	SMP.1; SMP.2; SMP.3; SMP.5; KY.6.NS.6; KY.6.G.3
Lesson 11.3	Find Distance on the Coordinate Plane	357	364	SMP.1; SMP.2; SMP.3; SMP.5; SMP.7; SMP.8; KY.6.NS.6; KY.6.NS.8
Lesson 11.4	Find Perimeter and Area on the Coordinate Plane	365	372	SMP.1; SMP.2; SMP.3; SMP.6; SMP.7; KY.6.NS.8; KY.6.G.3

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Module 12: Area of Triangles and Special Quadrilaterals				
Lesson 12.1	Develop and Use the Formula for Area of Parallelograms	377	384	SMP.1; SMP.2; SMP.3; KY.6.EE.2; KY.6.G.1
Lesson 12.2	Develop and Use the Formula for Area of Triangles	385	392	SMP.1; SMP.2; SMP.3; KY.6.EE.2; KY.6.G.1
Lesson 12.3	Develop and Use the Formula for Area of Trapezoids	393	400	SMP.1; SMP.2; SMP.3; SMP.5; KY.6.EE.2; KY.6.G.1
Lesson 12.4	Find Area of Composite Figures	401	408	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.G.1
Module 13: Surface Area and Volume				
Lesson 13.1	Explore Nets and Surface Area	413	420	SMP.1; SMP.2; SMP.3; KY.6.G.4
Lesson 13.2	Find Volume of Rectangular Prisms	421	426	SMP.1; SMP.2; SMP.3; KY.6.EE.2; KY.6.G.2
Lesson 13.3	Solve Volume Problems	427	432	SMP.1; SMP.2; SMP.3; KY.6.EE.2; KY.6.G.2
Module 14: Data Collection and Displays				
Lesson 14.1	Explore Statistical Data Collection	439	444	SMP.1; SMP.2; SMP.3; KY.6.SP.0; KY.6.SP.1; KY.6.SP.B.5
Lesson 14.2	Display Data in Dot Plots	445	452	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.SP.0; KY.6.SP.4
Lesson 14.3	Make Histograms and Frequency Tables	453	460	SMP.1; SMP.2; SMP.3; SMP.7; KY.6.SP.0; KY.6.SP.4

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Module 15: Measures of Center				
Lesson 15.1	Explore Mean as Fair Share	465	470	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.SP.3
Lesson 15.2	Find Measures of Center	471	476	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.SP.3; KY.6.SP.B.5
Lesson 15.3	Choose a Measure of Center	477	482	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.SP.B.5
Module 16: Variability and Data Distribution				
Lesson 16.1	Explore Patterns of Data	487	492	SMP.1; SMP.2; SMP.3; SMP.7; KY.6.SP.B.5
Lesson 16.2	Display Data in Box Plots	493	500	SMP.1; SMP.2; SMP.3; SMP.6; SMP.7; KY.6.SP.4
Lesson 16.3	Find Mean Absolute Deviation	501	508	SMP.1; SMP.2; SMP.3; SMP.6; KY.6.SP.B.5
Lesson 16.4	Explore Measures of Variability	509	516	SMP.1; SMP.2; SMP.3; KY.6.SP.3; KY.6.SP.B.5
Lesson 16.5	Describe Distributions	517	524	SMP.1; SMP.2; SMP.3; SMP.6; SMP.8; KY.6.SP.2; KY.6.SP.B.5