

Grade 6 Curriculum Map 2018-19
Key: Math in Focus Course 1 (MIF)

TIME FRAME	UNIT/CONCEPTS	CORE GOALS & SKILLS	PA ELIGIBLE STANDARDS & ASSESSMENTS	Resources	Vocabulary
September (10 days)	Course 1A Content Chapter 1: Positive Numbers and the Number Line	<p>Big Idea: Whole numbers, fractions, and decimals are numbers that can be represented in several ways.</p> <p>1.1 The Number Line</p> <ul style="list-style-type: none"> • Represent whole numbers, fractions and decimals on a number line • Interpret and write statements of inequality for two given positive numbers using the symbols $>$ and $<$ <p>1.2 Prime Factorization</p> <ul style="list-style-type: none"> • Express a whole number as a product of its prime factors. <p>1.3 Common Factors and Multiples</p> <ul style="list-style-type: none"> • Find the common factors and the greatest common factor of two whole numbers. • Find the common multiples and the least common multiple of two whole numbers. <p>1.4 Squares and Square roots</p> <ul style="list-style-type: none"> • Find the square of a number. • Find the square root of a perfect square. <p>1.5 Cubes and Cube Roots</p> <ul style="list-style-type: none"> • Find the cube of a number. • Find the cube root of a perfect cube. • Evaluate numerical expressions involving whole number exponents. 	<p>CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.</p> <p>CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples.</p> <p>CC.2.1.6.E.4 Apply and extend previous understandings of number to the system of rational numbers.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p>	<p>Recall Prior Knowledge (RPK) Finding factors, multiples and simplifying a numerical expression.</p> <p>Chapter 1 Pre-Test MIF Textbook A p. 3 -41</p> <p>ALEKS and Quick tables</p>	<p>Number line Positive number Composite number Prime factor Common factor Greatest common factor Common multiple Least common multiple Square (of a number) Exponent Base (of an exponent) Perfect square Square root Cube (of a number) Perfect cube Cube root</p>

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			<p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Initial Knowledge Check – ALEKS</i> <i>Chapter 1 Test – Math in Focus</i></p>		
September (7 days)	Chapter 2: Negative numbers and the number line	<p>Big Idea: Negative numbers are the opposites of positive numbers. For every positive number there is a corresponding negative number.</p> <p>2.1 Negative numbers</p> <ul style="list-style-type: none"> • Use negative numbers to represent real-world quantities. • Represent compare and order positive and negative numbers on a number line, <p>2.2 Absolute value</p> <ul style="list-style-type: none"> • Understand the absolute value of the number is its distance from 0 on the number line. • Interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. 	<p>CC.2.1.6.E.4 Apply and extend previous understandings of number to the system of rational numbers.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p><i>Chapter 2 Test – Math in Focus</i></p>	<p>RPK: Representing positive numbers on a number line p. 43 Chapter 2 pre-test MIF Textbook A p. 42-61</p> <p>ALEKS and Quick tables</p>	<p>Negative number Opposite Absolute value</p>

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<p>October (14 days)</p>	<p>Chapter 3: Multiplying and Dividing Fractions and Decimals</p>	<p>Big Idea: Whole number concepts can be extended to fractions and decimals when more precise calculations are needed.</p> <p>3.1 Dividing Fractions</p> <ul style="list-style-type: none"> • Divide a fraction, whole number, or mixed number by a fraction or a mixed number. <p>3.2 Multiplying Decimals</p> <ul style="list-style-type: none"> • Multiply a decimal by a decimal. <p>3.3 Dividing Decimals</p> <ul style="list-style-type: none"> • Divide a whole number or a decimal by a decimal. <p>3.4 Real-world problems: Fractions and Decimals</p> <ul style="list-style-type: none"> • Solve problems involving fractions and decimals. 	<p>CC.2.1.6.E.1 Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</p> <p>CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.</p> <p>CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p> <p><i>Chapter 3 Test – Math in Focus</i></p>	<p>RPK: add/subtract decimals & improper fractions as mixed numbers p. 63</p> <p>Chapter 3 pre-test MIF Textbook A p. 62-110</p> <p>ALEKS and Quick tables</p>	<p>reciprocals</p>
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			<i>Cumulative Review Chapters 1-3</i>		
October- November (10 days)	Chapter 4: Ratio	<p>Big Idea: You can use a ratio to compare two quantities and you can use ratios to solve problems.</p> <p>4.1 Comparing two quantities</p> <ul style="list-style-type: none"> • Write ratios to compare two quantities. • Interpret ratios given in fraction form. • Use a ratio to find what fraction one quantity is of another or how many times as great one is as the other. <p>4.2 Equivalent ratios</p> <ul style="list-style-type: none"> • Write equivalent ratios. • Write ratios in simplest form. • Compare ratios. <p>4.3 Real-world problems: Ratios</p> <ul style="list-style-type: none"> • Solve real-world problems involving ratios 	<p>CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.</p> <p>CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.</p> <p>CC.2.1.6.E.3 Develop and/or apply number theory concepts to find common factors and multiples</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p>	<p>RPK: Equivalent fractions expressed by multiplication and division p. 115</p> <p>Chapter 4 pre-test MIF Textbook A p. 118-153</p> <p>ALEKS and Quick tables</p>	<p>Ratio Term Equivalent ratios Simplest form</p>

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			<p>CC.K-12.MP.7 Look for and use structure.</p> <p><i>Chapter 4 Test – Math in Focus</i></p>		
November (8 days)	Chapter 5: Rates	<p>Big Idea: You can use a rate to compare one quantity to another quantity, and use rates to solve problems.</p> <p>5.1 Rates and unit rates</p> <ul style="list-style-type: none"> • Sole unit rate problems including pricing and constant speed. <p>5.2 Real-world problems involving rates and unit rates</p> <ul style="list-style-type: none"> • Solve problems involving unit rates 	<p>CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.</p> <p>CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with multi-digit numbers.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p>	<p>RPK: Multiplying whole numbers, mixed numbers, and fractions p. 155</p> <p>Chapter 5 pre-test MIF Textbook A p. 159-181</p> <p>ALEKS and Quick tables</p>	<p>Rate Unit rate Speed Average speed</p>

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			CC.K-12.MP.8 Look for and express regularity in repeated reasoning.		
December (9 days)	Chapter 6: Percent	<p>Big Idea: Percent is a concept used to compare quantities expressed per hundred</p> <p>6.1 Understanding percent</p> <ul style="list-style-type: none"> Understand percent notation. Write equivalent fractions, decimals, and percents. <p>6.2 Fractions, decimals, and percents</p> <ul style="list-style-type: none"> Write more equivalent fractions, decimals, and percents. <p>6.3 Percent of a quantity</p> <ul style="list-style-type: none"> Find the percent of a number <p>6.4 Real-world problems: Percent</p> <ul style="list-style-type: none"> Solve problems involving percent <p>6.5 Percent of change</p> <ul style="list-style-type: none"> Solve problems involving percent increase and decrease. 	<p>CC.2.1.6.D.1 Understand ratio concepts and use ratio reasoning to solve problems.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>RPK: Finding equivalent fractions using multiplication and simplifying fractions using division p. 183</p> <p>Chapter 6 pre-test MIF Textbook A p. 185-213</p> <p>ALEKS and Quick tables</p>	<p>Percent Base Sales tax Commission Interest Interest rate Markup Discount</p>

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<p>December-January (12 days)</p>	<p>Chapter 7: Algebraic expressions</p>	<p>Big Idea: Algebraic expressions can be used to describe situations and solve real-world problems.</p> <p>7.1 Writing algebraic expressions</p> <ul style="list-style-type: none"> Use variables to write algebraic expressions. <p>7.2 Evaluating algebraic expressions</p> <ul style="list-style-type: none"> Evaluate algebraic expressions for given values of the variable. <p>7.3 Simplifying algebraic expressions</p> <ul style="list-style-type: none"> Simplify algebraic expressions in one variable. Recognize that the expression obtained after simplifying is equivalent to the original expression. <p>7.4 Expanding and factoring algebraic expressions</p> <ul style="list-style-type: none"> Expand simple algebraic expressions Factor simple algebraic expressions. <p>7.5 Real-world problems: Algebraic expressions</p> <ul style="list-style-type: none"> Solve real-world problems involving algebraic expressions. 	<p>CC.2.2.6.B.1 Apply and extend previous understandings of arithmetic to algebraic expressions.</p> <p>CC.2.2.6.B.2 Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p>	<p>RPK: Using bar models p. 219</p> <p>Chapter 7 pre-test MIF Textbook A p. 221-252</p> <p>ALEKS and Quick tables</p>	<p>Variable Algebraic expression Terms Evaluate Substitute Simplify Coefficient Like terms Equivalent expressions Expand factor</p>
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			CC.K-12.MP.8 Look for and express regularity in repeated reasoning.		
January-February (12 days)	Chapter 8: Equations and Inequalities	<p>Big Idea: Equations and inequalities can be used to describe situations and solve real-world problems.</p> <p>8.1 Solving algebraic equations</p> <ul style="list-style-type: none"> Solve equations in one variable <p>8.2 Writing linear equations</p> <ul style="list-style-type: none"> Express the relationship between two quantities as a linear equation. Use tables and graphs to represent linear equations <p>8.3 Solving simple inequalities</p> <ul style="list-style-type: none"> Use substitution to determine whether a given number is a solution of an inequality <p>8.4 Real- world problems: Equations and inequalities</p> <ul style="list-style-type: none"> Solve real-world problems by writing equations Solve real-world problems by writing inequalities. 	<p>CC.2.1.6.E.4 Apply and extend previous understandings of numbers to the system of rational numbers.</p> <p>CC.2.2.6.B.2 Understand the process of solving a one-variable equation or inequality and apply it to real-world and mathematical problems.</p> <p>CC.2.2.6.B.3 Represent and analyze quantitative relationships between dependent and independent variables.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p>	<p>RPK: Comparing symbols and using variables to write algebraic expressions p. 3</p> <p>Chapter 8 pre-test MIF Textbook B p. 3-37</p> <p>ALEKS and Quick tables</p>	<p>Equation Solution Linear equation Independent variable Dependent variable inequality</p>

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			<p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>		
February (9 days)	Chapter 9: The coordinate plane	<p>Big Idea: Every point on the coordinate plane can be represented by a pair of coordinates.</p> <p>9.1 Points on the coordinate plane</p> <ul style="list-style-type: none"> • Name and locate points on the coordinate plane • Draw and identify polygons on the coordinate plane <p>9.2 Length of line segments</p> <ul style="list-style-type: none"> • Find lengths of horizontal and vertical line segments on the coordinate plane. • Solve real-world problems involving coordinates and coordinate plane <p>9.3 Real world problems: Graphing</p> <ul style="list-style-type: none"> • Solve real-world problems involving equation sand coordinate plane. 	<p>CC.2.2.6.B.3 Represent and analyze quantitative relationships between dependent and independent variables.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p>	<p>RPK: Plotting coordinates p. 39</p> <p>Chapter 9 pre-test MIF Textbook B p. 42-71</p> <p>ALEKS and Quick tables</p>	<p>Coordinates</p> <p>Coordinate plane</p> <p>x-axis</p> <p>y-axis</p> <p>quadrants</p>

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			<p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>		
March (12 days)	Chapter 10	<p>Big Idea: The area of a polygon can be found by dividing it into smaller shapes and then adding the areas of those shapes.</p> <p>10.1 Area of a triangle</p> <ul style="list-style-type: none"> • Use a formula to find the area of a triangle <p>10.2 Area of parallelograms and trapezoids</p> <ul style="list-style-type: none"> • Use a formula to find the area of a parallelogram, given its base and height. • Use a formula to find the area of a trapezoid, given its bases and height. <p>10.3 Area of other polygons</p> <ul style="list-style-type: none"> • Divide polygons into triangles • Find the area of a regular polygon by dividing it into smaller shapes. <p>10.4 Area of composite figures</p> <ul style="list-style-type: none"> • Recognize that a plane figure is made up of polygons. • Solve problems involving areas of composite figures. 	<p>CC.2.3.6.A.1 Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>RPK: Finding area of triangles p.75</p> <p>Chapter 10 pre-test MIF Textbook B p. 75-117</p> <p>ALEKS and Quick tables</p>	
April (11 days)	Chapter 11: Circumference and Area of a Circle	<p>Big Idea: A circle is a geometric figure that has many useful applications in the real-world.</p>	<p>CC.2.1.6.E.2 Identify and choose appropriate processes to compute fluently with</p>	<p>RPK: Adding, subtracting and</p>	<p>Center Radius</p>

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		<p>11.1 Radius, diameter and circumference of a circle</p> <ul style="list-style-type: none"> • Identify parts of a circle • Recognize that a circle’s diameter is twice its radius • Use the formula for the circumference of a circle • Identify semicircles and quarter circles and find the distance around them <p>11.2 Area of a circle</p> <ul style="list-style-type: none"> • Use the formula to calculate the areas of circles, semicircles, and quadrants. <p>11.3 Real-world problems: Circles</p> <ul style="list-style-type: none"> • Solve real-world problems involving composite figures. • Solve real-world problems involving semicircles, quadrants, and composite figures. 	<p>multi-digit numbers.</p> <p>CC.2.3.6.A.1 Apply appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>multiplying decimals p.119</p> <p>Chapter 11 pre-test MIF Textbook B p. 119-167</p> <p>ALEKS and Quick tables</p>	<p>diameter</p> <p>Circumference</p> <p>Arc</p> <p>Semicircle,</p> <p>Quadrant</p>
April (12 days)		Big Idea: Area is measured in square units,	CC.2.3.6.A.1 Apply		Net

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	Chapter 12: Surface area and volume of solids	<p>and the surface area of a prism or pyramid is the sum of the areas of its faces. Volume is measured in cubic units, and the volume of a prism is the area of its base times</p> <p>12.1 Nets of Solids</p> <ul style="list-style-type: none"> • Identify the net of a prism and a pyramid • Identify the solid formed by a given net. <p>12.2 Surface area of solids</p> <ul style="list-style-type: none"> • Find the surface area of a prism <p>12.3 Volume of prisms</p> <ul style="list-style-type: none"> • Find the volume of a prism <p>12.4 Real-world problems: Surface and volume</p> <ul style="list-style-type: none"> • Solve problems involving surface area and volume of prisms 	<p>appropriate tools to solve real-world and mathematical problems involving area, surface area, and volume.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>RPK: Finding volumes of various solids p.169</p> <p>Chapter 12 pre-test MIF Textbook B p. 169-213</p> <p>ALEKS and Quick tables</p>	Pyramid Surface area Cross section
May (8 days)	Chapter 13: Introduction to Statistics	<p>Big Idea: Statistics summarize data so that information can be gathered from the data.</p> <p>13.1 Collecting and tabulating data</p> <ul style="list-style-type: none"> • Collect, organize, and tabulate data. 	CC.2.4.6.B.1 Demonstrate an understanding of statistical variability by	RPK: Interpreting data on a line plot p. 215	Frequency Dot plot Skewed Symmetrical

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		<p>13.2 Dot plots</p> <ul style="list-style-type: none"> Display and analyze data using a dot plot <p>13.3 Histograms</p> <ul style="list-style-type: none"> Display and analyze data using a histogram 	<p>displaying, analyzing, and summarizing distributions.</p> <p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p> <p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>Chapter 13 pre-test MIF Textbook B p. 217-241</p> <p>ALEKS and Quick tables</p>	<p>Range Histogram Outlier</p>
<p>May (13 days)</p>	<p>Chapter 14: Measure of central tendency</p>	<p>Big Idea: Measures of central tendency can be used to summarize data distributions, and help you make decisions in real-world problems.</p> <p>14.1 Mean</p> <ul style="list-style-type: none"> Find the mean of a set of data Use the mean of a set of data to solve problems <p>14.2 Median</p>	<p>CC.K-12.MP.1 Solve problems and persevere in solving them.</p> <p>CC.K-12.MP.2 Reason abstractly and quantitatively.</p>	<p>RPK: Dividing decimals and finding averages and means p.243</p> <p>Chapter 14 pre-test</p>	<p>Mean Median Mode</p>

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		<ul style="list-style-type: none"> Find the median of a set of data Use the median of a set of data to solve problems. <p>14.3 Mode</p> <ul style="list-style-type: none"> Find the mode of a set of data Use the mode of a set of data to solve problems. <p>14.4 Real-world problems: Mean, Median, and Mode</p> <ul style="list-style-type: none"> Solve the problems that are related to the concepts of mean, median, and mode, including the selection of the measure of central tendency to be used for problems. 	<p>CC.K-12.MP.3 Construct arguments and critique the reasoning of others.</p> <p>CC.K-12.MP.4 Model with mathematics.</p> <p>CC.K-12.MP.5 Reason abstractly and quantitatively</p> <p>CC.K-12.MP.6 Attend to precision</p> <p>CC.K-12.MP.7 Look for and use structure.</p> <p>CC.K-12.MP.8 Look for and express regularity in repeated reasoning.</p>	<p>MIF Textbook B p. 244-279</p> <p>ALEKS and Quick tables</p>	
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