

Optic	ons FRMS Math 7B-OR	Scope and Sequence
Unit	Lesson	Objectives
Equa	tions and Inequalities	
	Addition and Subtraction Equations	
		Solve one-step addition and subtraction equations.
		Solve one-step addition and subtraction equations in the real world and interpret the results.
	Multiplication and Division Equations	
		Solve one-step multiplication and division equations.
		Write and solve one-step multiplication and division equations in the real world and interpret the results.
	Solving Two-Step Equations	
		Solve two-step equations.
		Solve two-step equations in the real world and interpret the results.
	Writing Equations	
		Write equations from words.
		Write equations to represent real-world situations.
	Graphing Inequalities	
		Graph an inequality.
		Write an inequality from a graph.
	Addition and Subtraction Inequalities	
		Solve one-step addition and subtraction inequalities.
		Solve one-step addition and subtraction inequalities in the real world and interpret the results.
	Multiplication and Division	

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		Solve one-step multiplication and division inequalities.
		Solve one-step multiplication and division inequalities in the real world and interpret the results.
	Solving Two-Step Inequalities	
		Solve two-step inequalities.
		Solve two-step inequalities in the real world and interpret the results.
	Performance Task: Technology Trends	
	Unit Test	
Prob	ability Models	
	Understanding Probability	
		Identify an event with a given probability as impossible, unlikely, likely, or certain.
		Describe the probability of an event as a number between 0 and 1, which represents the likelihood of the event.
		Use the fact that the sum of the probabilities of all possible outcomes is 1 to find the probabilities of complementary events.
	Theoretical Probability	
		Express the theoretical probabilities of given outcomes of an experiment as a ratio.
		Use a given sample space to calculate the theoretical probabilities of events.
		Use theoretical probability to make predictions.
	Experimental Probability	
		Find the experimental probability of an event, expressing it as a ratio.
		Use experimental probability to make predictions.
	Experimental vs. Theoretical Probability	
		Compare experimental results to theoretical probabilities and make conjectures about the results.

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		Explain possible sources of discrepancy between the theoretical and experimental probability of an event.
	Compound Events and Sample Space	
		Identify the sample space for an experiment involving compound events.
		Determine outcomes in a sample space that represents a given compound event.
	Compound Events and the Fundamental Counting Principle	
		Use the fundamental counting principle to determine the number of possible outcomes.
		Use the fundamental counting principle to determine the probability of compound events.
	Simulations to Estimate Probabilities	
		Design a simulation to experimentally determine the probability of compound events.
		Use a simulation to generate frequencies for compound events; e.g., use a coin to simulate the gender of a baby and find the experimental probability of having exactly 1 boy in a family of three children.
	Unit Test	
Draw	ing Inferences about Populations	
	Populations and Sampling	
		Explain that statistics can be used to gain information about a population by examining a sample of the population.
		Determine when sampling is an appropriate and helpful measure of a population and when it is not.
	Sampling Methods	
		Compare a random sample to a biased sample in a variety of real-world contexts to determine validity.
		Identify and explain the process for choosing a random sample.
	Inferences and Predictions	
		Make an inference about the whole population based on a sample by using proportional reasoning.

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		Examine sample size and the effect on a prediction using the results of a simulation.
	Variation in Predictions and Estimates	
		Analyze the results of multiple samples by comparing the means of samples and populations.
		Describe variations in estimates or predictions of multiple samples.
	Analyzing Dot Plots	
		Informally compare shapes of two different data distributions with similar variations.
		Analyze two dot plots with similar variation by comparing the measures of center.
	Comparing Measures of Center and Variability	
		Analyze two numerical data distributions with similar variation by calculating and comparing the measures of center to the measure of variability.
		Compare the measures of center of two sets of data using a multiple of the measure of variability, expressed as a ratio.
		Draw an informal comparative inference about two sets of data.
	Comparing Populations	
		Recognize the measure of center and variability to use when making comparisons.
		Draw informal comparative inferences using measures of center and variability.
	Unit Test	
Problem Solving with Geometry: Part One		One
	Angle Relationships	
		Identify supplementary, complementary, vertical, and adjacent angles.
		Use special relationships between angle pairs to find an unknown angle measure.
	Finding Unknown Angle Measures	

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		Use angle relationships to find unknown measures in a figure.
	Constructing Triangles	
		Construct triangles from given parameters.
		Identify whether given parameters create a unique triangle, more than one triangle, or no triangle.
	Constructing Geometric Figures	
		Construct geometric figures from triangles.
		Describe the characteristics of polygons.
	Circumference	
		Solve problems involving the circumference of a circle.
	Area of a Circle	
		Solve problems involving the area of a circle.
		Describe the relationship between the circumference and area of a circle.
	Area of Composite Figures	
		Solve problems involving the area of composite figures.
	Unit Test	
Problem Solving with Geometry: Part Two		īwo
	Surface Area of Composite Figures	
		Calculate surface areas of composite figures.
	Volume of Prisms	
		Calculate volumes of rectangular and triangular prisms.
	Volume of Composite Figures	
		Calculate volumes of composite figures.

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	Applications of Volume and Surface Area	
		Solve real-world problems by determining if they require finding surface area or volume.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	