Edgenuity™

Options FRMS Math 7B 2020	Scope and Sequence
Unit **Lesson**	**Objectives**
Probability	
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.
	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.
Probability of Compound Events	
	Find probabilities of independent compound events using organized lists, tables, or tree diagrams.

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		Find probabilities of dependent compound events using organized lists, tables, or tree diagrams.
	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	
Sampling and Comparing 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.
		Examine sample size and the effect on a prediction using the results of a simulation.
	Multiple Samples	
		Use a simulation to generate multiple samples of the same size.
		Compare samples generated from simulations to draw an inference about a population.
	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.

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	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 Box Plots	
		Compare two data sets with different numbers of data points by comparing two box plots.
		Compare two data sets by comparing the difference in the measures of center and the measures of variability.
		Draw an informal comparative inference about two sets of data.
	Unit Test	
Expressions		
	Writing Expressions	
		Translate algebraic expressions into words.
		Translate words into algebraic expressions.
	Writing and Evaluating Expressions	
		Write expressions to represent real-world situations.
		Evaluate expressions for real-world situations.
	Using Properties to Simplify Expressions	

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		Simplify expressions using properties of operations and combining like terms.
	Adding and Subtracting Expressions	
		Add algebraic expressions and use them to model real-world scenarios.
		Subtract algebraic expressions and use them to model real-world scenarios.
	Expanding Expressions	
		Use the distributive property to expand and simplify algebraic expressions.
		Identify equivalent expressions.
	Factoring Expressions	
		Find the greatest common factor of an algebraic expression.
		Rewrite algebraic expressions by factoring.
	Unit Test	
Equations		
	Writing Equations	
		Write equations from words.
		Write equations to represent real-world situations.
	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.

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	Solving Two-Step Equations	
		Solve two-step equations.
		Solve two-step equations in the real world and interpret the results.
	Solving Multi-Step Equations	
		Solve multi-step equations.
		Solve multi-step equations in the real world and interpret the results.
	Equations in the Real World	
		Write and solve equations to represent real-world situations.
	Performance Task: Technology Trends	
	Unit Test	
Two-Dimensional Geometry		
	Angle Relationships	
		Identify supplementary, complementary, vertical, and adjacent angles.
		Use special relationships between angle pairs to find an unknown angle measure.
	Circumference	
		Solve problems involving the circumference of a circle.