

TCAP-ACH Grade 7 Mathematics Framework

<b>Reporting Category 1: Mathematical Processes</b>		<b>%</b>	<b># of Items</b>
		18-24%	9-12
0706.1.1	Use proportional reasoning to solve mixture/concentration problems.		
0706.1.2	Generalize a variety of patterns to a symbolic rule from tables, graphs, or words.		
0706.1.3	Recognize whether information given in a table, graph, or formula suggests a directly proportional, linear, inversely proportional, or other nonlinear relationship.		
0706.1.4	Use scales to read maps.		

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<b>Reporting Category 2: Number and Operations</b>		<b>%</b>	<b># of Items</b>
		24-27%	12-14
0706.2.1	Simplify numerical expressions involving rational numbers.		
0706.2.2	Compare rational numbers using appropriate inequality symbols.		
0706.2.5	Solve contextual problems that involve operations with integers.		
0706.2.6	Express the ratio between two quantities as a percent, and a percent as a ratio or fraction.		
0706.2.7	Use ratios and proportions to solve problems.		

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<b>Reporting Category 3: Algebra</b>		<b>%</b>	<b># of Items</b>
		31-33%	14-17
0706.3.1	Evaluate algebraic expressions involving rational values for coefficients and/or variables.		
0706.3.4	Interpret the slope of a line as a unit rate given the graph of a proportional relationship.		
0706.3.5	Represent proportional relationships with equations, tables and graphs.		
0706.3.6	Solve linear equations with rational coefficients symbolically or graphically.		
0706.3.7	Translate between verbal and symbolic representations of real-world phenomena involving linear equations.		
0706.3.8	Solve contextual problems involving two-step linear equations.		

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<b>Reporting Category 4: Geometry and Measurement</b>		<b>%</b>	<b># of Items</b>
		8%	4
0706.4.1	Solve contextual problems involving similar triangles.		

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<b>Reporting Category 5: Data Analysis, Statistics, and Probability</b>		<b>%</b>	<b># of Items</b>
		8-12%	4-6
0706.5.3	Calculate and interpret the mean, median, upper-quartile, lower-quartile, and interquartile range of a set of data.		
0706.5.4	Use theoretical probability to make predictions.		