

TCAP-ACH Grade 3 Mathematics Framework

Reporting Category 1: Mathematical Processes		%	# of Items
		12-16%	6-8
0306.1.2	Solve problems involving elapsed time.		
0306.1.4	Match the spoken, written, concrete, and pictorial representations of fractions with denominators up to ten.		
0306.1.5	Represent problem mathematically using diagrams, numbers, and symbolic expressions.		
0306.1.7	Select appropriate units and tools to solve problems involving measures.		

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Reporting Category 2: Number and Operations		%	# of Items
		48-54%	24-27
0306.2.2	Identify the place value of numbers in the ten-thousands, thousands, hundreds, tens, and ones positions.		
0306.2.5	Identify various representations of multiplication and division.		
0306.2.6	Recall basic multiplication facts through 10 times 10 and the related division facts.		
0306.2.7	Compute multiplication problems that involve multiples of ten using basic number facts.		
0306.2.8	Solve problems that involve the inverse relationship between multiplication and division.		
0306.2.9	Solve contextual problems involving the addition (with and without regrouping) and subtraction (with and without regrouping) of two- and three-digit whole numbers.		
0306.2.10	Identify equivalent fractions given by various representations.		
0306.2.11	Recognize and use different interpretations of fractions.		
0306.2.12	Name fractions in various contexts that are less than, equal to, or greater than one.		
0306.2.13	Recognize, compare, and order fractions (benchmark fractions, common numerators, or common denominators).		

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Reporting Category 3: Algebra		%	# of Items
		8-10%	4-5
0306.3.1	Verify a conclusion using algebraic properties.		
0306.3.2	Express mathematical relationships using number sentences/equations.		
0306.3.3	Find the missing values in simple multiplication and division equations.		

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Reporting Category 4: Geometry and Measurement		%	# of Items
		14-18%	7-9
0306.4.1	Recognize polygons and be able to identify examples based on geometric definitions.		
0306.4.4	Calculate the perimeter of shapes made from polygons.		
0306.4.5	Choose reasonable units of measure, estimate common measurements using benchmarks, and use appropriate tools to make measurements.		
0306.4.6	Measure length to the nearest centimeter or half inch.		

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Reporting Category 5: Data Analysis, Statistics, and Probability		%	# of Items
		8-10%	4-5
0306.5.1	Interpret a frequency table, bar graph, pictograph, or line plot.		
0306.5.2	Solve problems in which data is represented in tables or graphs.		