New Mexico Teacher Assessments™

Mathematics
Test Framework Worksheet

Test Code 14

Notes:

		Test Proportion				
SUBAREA I—MATHEMATICAL PROCESSES, METHODS, NUMBER CONCEPTS, AND THEIR HISTORICAL DEVELOPMENT		**30**				
0001	Understands problem-solving strategies, connections among different mathematical ideas, and the use of mathematical modeling to solve real-world problems.					
0002	Understands principles of mathematical reasoning and techniques for communicating mathematical ideas.					
0003	Understands mathematics as a human endeavor.					
0004	Understands the appropriate use of technology in the exploration of concepts, skills, and applications in all areas of mathematics.					
0005	Understands number systems and equivalent ways of representing numbers.					
0006	Understands number theory and operations on number systems, and extends them to symbolic systems.					
SUBAREA II—GEOMETRY AND MEASUREMENT		**20**				
0007	Applies geometric principles of points, lines, angles, planes, congruence, and similarity to analyze the formal characteristics of Euclidean geometry.					
0008	Applies geometric concepts and reasoning as a problem-solving strategy.					
0009	Understands coordinate, vector, and transformational geometry.					
0010	Understands and uses measurement.					
SUBAREA III—DATA ANALYSIS, STATISTICS, PROBABILITY, AND DISCRETE MATHEMATICS		**20**				
0011	Understands methods of collecting, organizing, displaying, describing, and analyzing data.					
0012	Understands data, and making predictions and inferences based on data.					
0013	Understand the theory of probability and probability distributions.					
0014	Understands and applies principles of discrete mathematics.					

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SUBAREA IV—PATTERNS, ALGEBRAIC RELATIONSHIPS, AND FUNCTIONS		**30**				
0015	Describes, analyzes, and generalizes mathematical patterns.					
0016	Uses variables and symbolic expressions to describe and analyze patterns of change, functions, and algebraic relationships.					
0017	Understands properties and applications of linear functions and solves related equations and inequalities.					
0018	Understands properties and applications of quadratic and higher order polynomial functions, and solves related equations and inequalities.					
0019	Understands properties and applications of rational, radical, exponential, logarithmic, and trigonometric functions, and solves related equations and inequalities.					
0020	Understands principles and applications of differential and integral calculus.					