

Mathematics

Level 14 Standards

Name: _____

Concept Area and Standard	Date Passed Teacher Initials	Grade A = Advanced B = Proficient
NUMBER SENSE		
Interpret and use ratios in different contexts (e.g. batting averages, miles per hour) to show the relative sizes of two quantities using appropriate notations (a/b , a to b , a out of b , $a:b$) (1.2)		
Use proportions to solve problems (e.g. determine the value of N if $4/7 = N/21$); find the length of a side of a polygon similar to a known polygon; use cross-multiplication for solving such problems, understanding it as the multiplication of both sides of an equation by a multiplicative inverse (1.3)		
Solve addition, subtraction, multiplication, and division problems, including those arising in concrete situations, that use positive and negative integers and combinations of these operations (2.3)		
ALGEBRA		
Write and evaluate an algebraic expression for a given situation, using up to three variables (1.2)		
Convert one unit of measurement to another (e.g., from feet to miles, from centimeters to inches) (2.1)		
Demonstrate an understanding that rate is a measure of one quantity per unit value of another quantity (2.2)		
Solve problems involving rates, average speed, distance, and time (2.3)		
MEASUREMENT AND GEOMETRY		
Know and use the formulas for the volume of triangular prisms and cylinders (area of base X height); compare these formulas and explain the similarity between them and the formula for the volume of a rectangular solid (1.3)		
STATISTICS, DATA ANALYSIS, & PROBABILITY		
Understand how the inclusion or exclusion of outliers affects measures of central tendency (1.3)		
Compare different samples of a population with the data from the entire population and identify a situation in which it makes sense to use a sample (2.1)		

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Identify different ways of selecting a sample (e.g., convenience sampling, responses to a survey, random sampling) and which method makes a sample more representative for a population (2.2)		
Analyze data displays and explain how the way in which the question was asked might have influenced the results obtained and why the way in which the results are displayed might have influenced the conclusions reached (2.3)		
Identify data that represent sampling errors and explain why the sample (and the display) might be biased (2.4)		
Identify claims based on statistical data and, in simple cases, evaluate the validity of the claims (2.5)		
Represent all possible outcomes for compound events in an organized way (e.g., tables, grids, tree diagrams) and express the theoretical probability of each outcome (3.1)		
Use data to estimate the probability of future events (e.g., batting averages or number of accidents per mile driven) (3.2)		
Represent probabilities as ratios, proportions, decimals between 0 and 100 and verify that the probabilities computed are reasonable; know that if P is the probability of an event, 1-P is the probability of an event not occurring (3.3)		
Understand that the probability of either of two disjoint events occurring is the sum of the two individual probabilities and that the probability of one event following another, in independent trials, is the product of the two probabilities (3.4)		
Understand the difference between independent and dependent events (3.5)		

Date Completed All Level 14 Math Standards _____ **Teacher Signature** _____

(Quarter 1) Parent Signature _____ (Quarter 2) Parent Signature _____

(Quarter 3) Parent Signature _____ (Quarter 4) Parent Signature _____