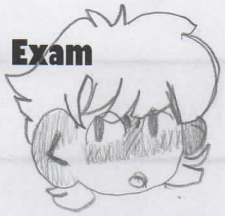
8th Grade Scope and Sequence
2019-2020

1st Grading Period (40 days)	2nd Grading Period (43 days)
Real Numbers (10 days) • 2 days - First days of school • *Calculator Skills and Operations* (review operations without calculator first) • *Scientific Notation* 8.2C (1 day exponent skills) convert between standard decimal notation and scientific notation • *Relationships between sets, approximating, and ordering real numbers* 8.2A extend previous knowledge of sets and subsets using a visual representation to describe relationships between sets of real numbers 8.2B approximate the value of an irrational number, including π and square roots of numbers less than 225, and locate that rational number approximation on a number line **8.2D order a set of real numbers arising from mathematical and real-world contexts**	**1st 4 days - Finish Bivariate Data and Constant Rate of Change/Slope Functions (23 days)** • *Determine slope* **8.4C use data from a table or graph to determine the rate of change or slope and y-intercept in mathematical and real-world problems** • Represent linear relationships and *Write an Equation (y=mx+b) using Verbal, Numerical, Tables & Graphs* **8.5I write an equation in the form y = mx + b to model a linear relationship between two quantities using verbal, numerical, tabular, and graphical representations** 8.5B represent linear non-proportional situations with tables, graphs, and equations in the form of y = mx + b, where b ≠ 0 • Proportional vs Non-Proportional 8.5F distinguish between proportional and non-proportional situations using tables, graphs, and equations in the form y = kx or y = mx + b, where b ≠ 0 8.5H identify examples of proportional and non-proportional functions that arise from mathematical and real-world problems • *Identify, Represent Functions using Ordered Pairs, Tables, Graphs and Mappings* **8.5G identify functions using sets of ordered pairs, tables, mappings, and graphs** • *Interpretation of Two Linear Equations Graphs* 8.9A identify and verify the values of x and y that simultaneously satisfy two linear equations in the form y = mx + b from the intersections of the graphed equations
Equations and Inequalities (21 days) • *Review one and two step equations, combining like terms, distributive property, multi-step equations* • *Model and Solve one variable equations with variables on both sides* **8.8C model and solve one-variable equations with variables on both sides of the equal sign that represent mathematical and real-world problems using rational number coefficients and constants** • *Write one variable equations and inequalities* 8.8A write one-variable equations or inequalities with variables on both sides that represent problems using rational number coefficients and constants 8.8B write a corresponding real-world problem when given a one-variable equation or inequality with variables on both sides of the equal sign using rational number coefficients and constants	**Financial Literacy (10 days)** • *Mean Absolute Deviation* 8.11B determine the mean absolute deviation and use this quantity as a measure of the average distance data are from the mean using a data set of no more than 10 data points • *Simulate Random Sampling* 8.11C simulate generating random samples of same size from a population with known characteristics to develop the notion of a random sample being representative of the population from which is was selected • *Calculate/Compare Simple and Compound Interest* **8.12D calculate and compare simple interest and compound interest earnings** Financial Decisions (8.12A – 8.12G)
Bivariate Data and Constant Rate of Change/Slope (14 days) **2 days of testing (CBA & PSAT8/9) – 4 days into 2nd NWKS** • *Bivariate Data* 8.5C contrast bivariate sets of data that suggest a linear relationship with bivariate sets of data that do not suggest a linear relationship from a graphical representation **8.5D use a trend line that approximates the linear relationship between bivariate sets of data to make predictions** 8.11A construct a scatterplot and describe the observed data to address questions of association such as linear, non-linear, and no association between bivariate data • *Direct Variation and represent linear proportional situations* 8.5E solve problems involving direct variation 8.5A represent linear proportional situations with tables, graphs, and equations in the form of y = kx • *Develop slope and graph proportional situations* 8.4A use similar right triangles to develop an understanding that slope, m, given as the rate comparing the change in y-values to the change in x-values, (y2 – y1)/(x2 – x1), is the same for any two points (x1, y1) and (x2, y2) on the same line **8.4B graph proportional relationships, interpreting the unit rate as the slope of the line that models the relationship**	**Final Exams (2 days review & 4 days testing)**

Name: Jade Cintron Period: 2nd

8th Grade CBA 1st Semester Exam
AfterMATH



I've Got It! **Almost There** **Needs Work**

SE	Summarize SE Based on Items	Question Numbers		
8.2A	learn more about sets & subsets using graphs	4		
8.2D	order sets of real numbers	5	17	
8.4A	Use right triangles to learn slope as the rate. Compare the y-values to the x-values	1		
8.4B		18	19	
8.4C	Use info from data charts to find the ROC, Slope, or y-intercept	2	10	
8.5B		25		
8.5C		7		
8.5D		13	22	
8.5E		21		
8.5F		20		
8.5G		11	12	
8.5I		14	16	
8.8A		23?		
8.8B		15		
8.8C		9	24	
8.9A		6		

8.11A		3	
8.12D		8	

One thing that I would like to celebrate is that I passed the test.

I need to work on 8.4C and 8.9A.

Score: 60%

Student Signature: Jenaydeliz Cintron

Parent Signature: