Alabama Mathematics AAS

Grade 7 (AAS)

Proportional Reasoning	**Analyze proportional relationships and use them to solve realworld and mathematical problems.**	1 Calculate a unit rate (limited to whole numbers under 100). M.AAS.7.1
	Analyze proportional relationships and use them to solve realworld and mathematical problems.	2 Use a ratio to model or describe a real-world relationship. M.AAS.7.2
	Analyze proportional relationships and use them to solve realworld and mathematical problems.	3 Calculate 10%, 20%, 25%, and 50% of a number up to 100. M.AAS.7.3
Number Systems and Operations	**Apply and extend prior knowledge of addition, subtraction, multiplication, and division to operations with rational numbers.**	4 Solve multiplication problems up to fifteen with whole number factors. M.AAS.7.5
Algebra and Functions	**Create equivalent expressions using the properties of operations.**	5 Match equivalent expressions using the properties of operations. M.AAS.7.7 6 Identify a pattern in a sequence of whole numbers with a whole number common difference (e.g. when skip counting by 5, the whole number common difference is 5). M.AAS.7.7A
	Solve realworld and mathematical problems using numerical and algebraic expressions, equations, and inequalities.	7 Add and subtract integers in a realworld situation. M.AAS.7.8
	Solve realworld and mathematical problems using numerical and algebraic expressions, equations, and inequalities.	8 Use the properties of operations to solve one-step equations and inequalities from real-world and mathematical problems. M.AAS.7.9
Data Analysis, Statistics, and Probability	**Make inferences about a population using random sampling.**	9 Find the range and median (when given an odd number of data points), and mean (involving one- or twodigit numbers) in real-world situations. M.AAS.7.10

Make inferences from an informal comparison of two populations.

10 Make inferences from graphical representations of a data set (e.g., line plots, dot plots, histograms, bar graphs, stem and leaf plots, or line graphs). M.AAS.7.11

11 Compare two sets of data within a single data display such as a picture graph, line plot, or bar graph. M.AAS.7.12

Investigate probability models.

12 Describe the probability of events occurring as possible or impossible. M.AAS.7.14

13 Given a data set that represents a series of events, identify the event most likely to occur. M.AAS.7.15

Geometry and Measurement

Construct and describe geometric figures, analyzing relationships among them.

14 Construct and analyze a geometric figure using manipulatives. M.AAS.7.18

15 Match two similar geometric shapes that are proportional in size and orientation. M.AAS.7.19

Solve realworld and mathematical problems involving angle measure, circumference, area, surface area, and volume.

16 Identify the radius, diameter, and circumference of a circle. M.AAS.7.20

Solve realworld and mathematical problems involving angle measure, circumference, area, surface area, and volume.

17 Classify angles as acute, obtuse, right, or straight. M.AAS.7.21

Solve realworld and mathematical problems involving angle measure, circumference, area, surface area, and volume.

18 Determine the area of regular, twodimensional figures. Determine the volume of rectangular prisms, limited to whole numbers. M.AAS.7.22