Virginia Mathematics - VAAP

Grade 7

Number, Number Sense, Computation, and Estimation

1 Compare whole numbers from 0 through 50, including in real world applications. M-7.1

CC. Whole numbers from 0 through 50 are compared with symbols <, =, >. M-7.1.CC

2 Match fractions and corresponding decimals. M-7.2

CC. Fractions and corresponding decimals could include: • 0.5 with 1/2 , 2/4, 3/6, and 4/8; • 0.25 with 1/4, 2/8, 3/12, and 4/16; or • 0.75 with 3/4, 6/8, 9/12, and 12/16. M-7.2.CC

3 Perform math operations with rational numbers in real world applications. M-7.3

CC. Math operations related to real world applications could include: • addition and subtraction with 0.5 or 1/2, • addition and subtraction with 0.25, 0.75, 1/4, or 3/4, or • addition and subtraction with 0.1 to 0.5 or 1/10 to 5/10. M-7.3.CC

4 Use currency for problems involving $20.00 or less. M-7.4

Measurement and Geometry

5 Tell time and measure elapsed time to the quarter hour and five minutes using analog and digital clocks, including with context. M-7.5

CC. Times could be on the quarter hour or five minutes in a.m. or p.m. and could include up to +/- 24 hours of elapsed time. Contexts will relate the time to an appropriate activity. M-7.5.CC

6 Find the volume of a figure given a formula V = l x w x h or V = B x h. M-7.6

CC. Problems could range from a total volume of 1 through 40 cubic units. M-7.6.CC

7 Identify similar triangles. M-7.7

8 Identify two dimensional shapes based on their characteristics. M-7.8

CC. Two dimensional shapes could include triangles, squares, rectangles, and circles. Characteristics given could include verbal descriptions and graphic depictions of angles, sides, and/or points. M-7.8.CC

9 Identify points graphed in the first and second quadrants of the coordinate plane. M-7.9

CC. Points to be identified in the first and second quadrants could be from a given point, X, with directions to find a second point, Y, or from an ordered pair. M-7.9.CC

Probability, Statistics, Patterns, Functions, and Algebra

10 Determine probabilities in real world applications. M-7.10

CC. Probabilities to be determined could be 50% probability, 25% probability, or 75% probability. M-7.10.CC

11 Interpret data in picture and bar graphs and line graphs to identify values. M-7.11

CC. Picture graphs could have up to 3 categories with values from 0 through 10. Bar graphs could have from 3 to 8 categories with values from 0 through 40. Line graphs could have values from 30 through 100. M-7.11.CC

12 Evaluate expressions with one variable in real world applications, including with money. M-7.12

CC. Expressions could include addition or subtraction of whole numbers 0 through 50. M-7.12.CC

13 Solve one-step word problems using integers in real world applications. M-7.13

CC. For addition and subtraction problems, operands could range from 0 through 50 or -1 through -10. For multiplication and division problems, solutions could be from 0 through 40 or -1 through -5. M-7.13.CC

14 Determine possible solutions to inequalities with one variable in real world applications. M-7.14

CC. Inequalities could include using solutions from 0 through 20 using “more” or “less,” “greater than” or “less than,” or the symbols, > or <. M-7.14.CC