Virginia Mathematics - VAAP

Grade 8

Algebra - Expressions and Operations

1 **Identify an equation when provided a verbal description in real world applications.** M-HS.1

CC. The description and equation could include addition and subtraction from 0 through 50 or multiplication or division from 0 through 40. M-HS.1.CC

2 **Tell time and measure elapsed time to the minute using analog and digital clocks, including with context.** M-HS.2

CC. Times could be in one minute increments in a.m. or p.m. and could include up to +/- 24 hours or multiple days of elapsed time. Contexts will relate the time to an appropriate activity. M-HS.2.CC

3 **Evaluate expressions with one variable in real world applications, including using money.** M-HS.3

CC. Expressions could include addition, subtraction, multiplication, or division with solutions 1 through 100. M-HS.3.CC

4 **Use currency for problems involving $100.00 or less.** M-HS.4

5 **Identify equivalent expressions and evaluate expressions using powers 1-3.** M-HS.5

CC. Expressions: to the first power could result in a number from 1 through 20, to the second power could result in a number from 1 through 25 (squaring 1 through 5), and to the third power could result in a number from 1 through 125 (cubing 1 through 5) M-HS.5.CC

Algebra - Equations and Inequalities

6 **Solve one- and two-step linear equations with one variable and solutions from 0 through 40.** M-HS.6

CC. Equations could range from having one step of addition, subtraction, multiplication, or division to having two steps with two different operations. M-HS.6.CC

7 **Find the amount of sales tax and total cost for a purchase.** M-HS.7

CC. Problems could include finding the total cost for a purchase when given the cost(s) of 1 to 3 items and the total sales tax or finding the amount of sales tax when given the cost(s) of 1 to 3 items and the total cost of the purchase. M-HS.7.CC

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8 **Match the graph on a number line with the correct inequality.** M-HS.8

CC. The graph on a number line could represent an inequality with descriptive words or the symbols <, >, ≤, or ≥. M-HS.8.CC

Algebra - Functions

9 Identify a missing value in input and output tables based on a given function. M-HS.9

CC. The missing value could range from multiples of 1 through 30. M-HS.9.CC

10 Interpret trends in data, including in real world applications. M-HS.10

CC. Trends could include positive slopes of 1 through 10, negative slopes of -1 through -10, and slopes of 0. M-HS.10.CC