

Use variables and appropriate operations to write an expression, an equation, an inequality, or a system of equations or inequalities that represents a verbal description 7AF1.1

59. Which of the following inequalities represents the statement, “A number, x , decreased by 13 is less than or equal to 39”?

A $13 - x \geq 39$
B $13 - x \leq 39$
C $x - 13 \leq 39$
D $x - 13 < 39$

60. A shopkeeper has x kilograms of tea in stock. He sells 15 kilograms and then receives a new shipment weighing $2y$ kilograms. Which expression represents the weight of the tea he now has?

A $x - 15 - 2y$
B $x + 15 + 2y$
C $x + 15 - 2y$
D $x - 15 + 2y$

61. Divide a number by 5 and add 4 to the result. The answer is 9.

Which of the following equations matches these statements?

A $4 = 9 + \frac{n}{5}$
B $\frac{n}{5} + 4 = 9$
C $\frac{5}{n} = 4$
D $\frac{n + 4}{5} = 9$

62. In a certain room, the number of chairs, c , is equal to 3 times the number of tables, t .

Which equation matches the information?

A $3 \cdot c = t$
B $3 \cdot t = c$
C $3 \cdot c = 3 \cdot t$
D $c \cdot t = 3$

63. At a local bookstore, books that normally cost b dollars are on sale for 10 dollars off the normal price. How many dollars does it cost to buy 3 books on sale?

A $3b - 10$
B $3b + 10$
C $3(b - 10)$
D $3(b + 10)$