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QUESTION 1

What is the mean of the data set?

A. 55

B. 66

C. 78

D. 82

Correct Answer: D

QUESTION 2

1/3 ÷ 5/9 =

A. $\frac{3}{5}$ B. $\frac{5}{3}$ C. $\frac{5}{9}$ D. $\frac{1}{9}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The quotient of the two fractions can be found by writing the fractions as:

$$\frac{1}{3} \div \frac{5}{9} = \frac{\frac{1}{3}}{\frac{5}{9}} = \left(\frac{1}{3}\right) \cdot \left(\frac{9}{5}\right) = \frac{3}{5}.$$

QUESTION 3

(

5.4 × 107) ÷ (2.7 × 103) =

A.

Option A

B.

Option B

C.

Option C

D.

Option D

A. -1.5×10^4 B. -2.0×10^4 C. -3.5×10^4 D. -5.0×10^4

Correct Answer: B

To divide the two numbers in scientific notation, you have:

$$-5.4\times10^7 \div 2.7\times10^3 = \frac{-5.4\times10^7}{2.7\times10^3} = -\frac{5.4}{2.7}\times\frac{10^7}{10^3} = -2.0\times10^4.$$

QUESTION 4

Solve for x: 4(2x + 20) +3(x 1) = 0

A. 11

B. 7

C. -7

D. 11

Correct Answer: C

This equation can be solved by simplifying each side of the equation, combining like terms, isolatingxon one side of the equation and then solving forx:

$$\begin{aligned} 4(2x+20)+3(x-1)&=0\\ 8x+80+3x-3&=0\\ 11x+77&=0\\ x&=-\frac{77}{11}=-7. \end{aligned}$$

QUESTION 5

A student obtained an average of 86 for a series of seven assignments. Six of the grades were 85, 78, 83, 91, 89, and 86. The grade of the seventh assignment is:

A. 74

B. 86

C. 90

D. 98

Correct Answer: C

From the information in the problem,

$$\text{Average} = \frac{\text{Sum of Terms}}{\text{Number of Terms}}$$

$$86 = \frac{85+78+83+91+89+86+x}{7} = \frac{512+x}{7}$$

$$x = 86 \times 7 - 512 = 602 - 512 = 90.$$