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**QUESTION 1**

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,

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

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

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

QUESTION 2

Evaluate the following derivative: $d/dx(5a^4)$

A. 0

B. $5z^4$

C. $20a^3$

D. $5a^3$

Correct Answer: A

You begin by solving the integral and then evaluating the result between the limits of 2 and 4.

$$\frac{d}{dx}(x^n) = nx^{n-1}$$

QUESTION 3



A full-time employee works 40 hours during a five-day week. The percentage of a five-day week that the employee is at work is:

- A. 20%
- B. 33%
- C. 40%
- D. 50%

Correct Answer: B

QUESTION 4

What is the solution of the inequality $3x - 9 > 1 - 2x$?

A. $x > \frac{1}{2}$

B. $x < \frac{1}{2}$

C. $x > 2$

D. $x < 2$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: C

To solve the inequality $3x - 9 > 1 - 2x$, you need to collect like terms on one side of the inequality and all other values to the other side. You first add 9 to both sides of the inequality:

$$3x - 9 + 9 > 1 - 2x + 9$$

$$3x > 10 - 2x$$

You then add $2x$ to both sides of the inequality:

$$3x + 2x > 10 - 2x + 2x$$

$$5x > 10$$

Dividing both sides by 5 yields $x > 2$.

**QUESTION 5**

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 =$$

A. 96/36

B. 84/36

C. 73/36

D. 65/36

Correct Answer: C

The sum of

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 =$$

Can be found by first computing the value of each term

$$\left(\frac{4}{3}\right)^2 = \left(\frac{4^2}{3^2}\right) = \frac{16}{9}$$

$$\left(\frac{2}{4}\right)^2 = \left(\frac{2^2}{4^2}\right) = \frac{4}{16} = \frac{1}{4}$$

$$\left(\frac{4}{3}\right)^2 + \left(\frac{2}{4}\right)^2 = \frac{16}{9} + \frac{1}{4} = \frac{64+9}{36} = \frac{73}{36}.$$

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