



# PCAT-SECTION3<sup>Q&As</sup>

Pharmacy College Admission Test - Quantitative

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**QUESTION 1**

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.

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

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**QUESTION 2**

Chemistry students performed nine volume measurements of a solution during a lab and obtained the following results:

{2.4mL, 3.2mL, 3.7mL, 3.7mL, 4.5mL, 6.8mL, 7.3mL, 8.1mL, 12.2mL}

What is the median of the data set?

- A. 3.7mL
- B. 4.5mL
- C. 5.8mL
- D. 9.8mL

Correct Answer: B

The median is the middle or center value of the data set arranged in ascending numerical order, or 4.5mL.

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**QUESTION 3**

What is the average of the numbers 24, 53, 70, 89, 34, and 30?

- A. 84
- B. 39



C. 71

D. 50

Correct Answer: D

The average of a set of numbers is calculated by:

$$\text{Avg} = \frac{24 + 53 + 70 + 89 + 34 + 30}{6} = \frac{300}{6} = 50.$$

#### QUESTION 4

Evaluate the following derivative:

$$\frac{d}{dx}(3x^3 - 2x^2)$$

A.  $3x^2 + 2x$

B.  $3x^2 - 2x$

C.  $9x^2 - 4x$

D.  $9x^2 + 4x$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

The derivative of a polynomial is the sum of the derivatives of the terms of the polynomial, or:

$$\begin{aligned}\frac{d}{dx}(3x^3 - 2x^2) &= \frac{d}{dx}(3x^3) - \frac{d}{dx}(-2x^2) \\ &= \frac{d}{dx}(3x^3) - \frac{d}{dx}(2x^2) \\ &= 9x^2 - 4x.\end{aligned}$$

#### QUESTION 5

Evaluate the following derivative: A. Option A



$$\frac{d}{dx} \left( \frac{15}{3x^8} \right)$$

A.  $-\frac{40}{x^9}$

B.  $\frac{40}{x^9}$

C.  $-\frac{40}{x^{-9}}$

D.  $\frac{40}{x^{-9}}$

B. Option B

C. Option C

D. Option D

Correct Answer: A

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