



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

Pharmacy College Admission Test - Quantitative

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### QUESTION 1

What are the roots of the equation  $x^2 - 7x + 18 = 0$ ?

- A. 4.5, 1
- B. 2, 4.5
- C. 3.5, 8
- D. 1, 4.5

Correct Answer: A

### QUESTION 2

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 of  $x$  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 3

Evaluate the following indefinite integral:

$$\int (8 - t^3) dt$$

A.  $-8t + \frac{t^4}{4} + C$     B.  $-8t - \frac{t^4}{4} + C$     C.  $8t - \frac{t^4}{4} + C$     D.  $8t + \frac{t^4}{4} + C$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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### QUESTION 4

Evaluate the following derivative:  $d/dx(100)$

A. 0

B. 10

C.  $10x$

D. 100

Correct Answer: A

In evaluating the derivative, you should note that the function is a number or a constant because it has no dependence on the variable,  $x$ . Thus, the derivative of a constant is 0 or  $d/dx(100) = 0$

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### QUESTION 5

What is the median of the data set?

A. 80

B. 83



C. 85

D. 86

Correct Answer: B

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