



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

Pharmacy College Admission Test - Quantitative

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**QUESTION 1**

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 mode of the data set?

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

Correct Answer: A

The mode is the measurement that is the most frequent or common value in the data set. In this example, the mode is 3.7mL, because it occurs twice, more than any of the other measurements that occur only once.

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**QUESTION 2**

What is the solution of the inequality  $3x + 9 > 12x$ ?

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  $3x + 9 > 12x$ , 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:

$$3x - 9 + 9 > 12x + 9$$

$$3x > 12x + 9$$

You then add  $-12x$  to both sides of the inequality:



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

$$5x > 10.$$

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

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### QUESTION 3

What is the slope of a line described by  $3x + 2y - 12 = 0$ ?

A.  $3/2$  B.  $-3/2$

C.  $2/3$

D.  $-2/3$

Correct Answer: B

The slope can be identified by adapting the equation to the formal equation of a line or  $y = mx + b$

$$2y + 3x - 12 = 0$$

$$2y = -3x + 12$$

$$\frac{2y}{2} = \frac{-3x}{2} + \frac{12}{2}$$

$$y = -\frac{3}{2}x + 6$$

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### QUESTION 4

Solve for x:  $10 + 5x^2 = 135$

A.  $\pm 2$

B.  $\pm 5$

C.  $\pm 10$

D.  $\pm 25$

Correct Answer: B

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### QUESTION 5



What is the mean of the data set?

- A. 55
- B. 66
- C. 78
- D. 82

Correct Answer: D

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