PCAT-SECTION3 Q&As

Pharmacy College Admission Test - Quantitative

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QUESTION 1

(

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 2

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:

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

QUESTION 3

What is the solution of the inequality 3x9>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 > 1 2x, you need to collect like terms ofxon 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 2xto both sides of the inequality:

$$3x+2x>10-2x+2x$$
$$5x>10.$$

Dividing both sides by 5 yieldsx> 2.

QUESTION 4

What is the slope of a line that passes through the points (5, 2) and (1, 3)?

A. 1/3

B. -1/3

C. 3

D. 5

Correct Answer: A

$$m = \frac{y_2 - y_1}{x_2 - x_1}.$$

If the first point (5 , 2) = (x1,y1) and the second point (8 , 3) = (x2,y2), then substituting these coordinate values into the definition for the slope yields

$$m = \frac{3-2}{8-5} = \frac{1}{3}.$$

QUESTION 5

Solve for x: (4x 1)2 = 121

A. -3

B. 4

C. 3

D. 6

Correct Answer: C

This equation can be solved by first taking the square root of both sides of the equation (4x 1)2 = 121 or

$$\sqrt{(4x-1)^2} = \sqrt{121}$$

$$4x - 1 = 11$$

Solving for x yields $x = 3$.

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