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QUESTION 1

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 $x = 3$.

QUESTION 2

Express in scientific notation: 13.9

- A. 1.39×10^1
- B. 1.39×10^2
- C. 13.9×10^1
- D. 13.9×10^2

Correct Answer: B

In scientific notation, the number 13.9 is 1.39×10^2 .

QUESTION 3

Find the roots of the quadratic equation $x^2 - 2x - 1 = 0$.

- A. $x = 1 \pm \sqrt{2}$ B. $x = 1 \pm 2$ C. $x = \sqrt{2} \pm 1$ D. $x = 1 \pm \sqrt{3}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The equation is in the form of a quadratic equation $ax^2 + bx + c = 0$, where $a = 1$, $b = -2$, and $c = -1$. To solve this

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-2) \pm \sqrt{(-2)^2 - 4(1)(-1)}}{2(1)} = \frac{2 \pm 2\sqrt{2}}{2} = 1 \pm \sqrt{2}.$$

problem, you use the quadratic formula or

QUESTION 4

Upon rolling a pair of dice, what is the probability that the sum of the two numbers on the dice is either 7 or 12?

A. 1/6

B. 1/36

C. 5/36

D. 7/36

Correct Answer: D

QUESTION 5

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, isolating x on one side of the equation and then solving for x :

$$4(2x + 20) + 3(x - 1) = 0$$

$$8x + 80 + 3x - 3 = 0$$

$$11x + 77 = 0$$

$$x = -\frac{77}{11} = -7.$$

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