PCAT-SECTION3Q&As

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QUESTION 1

A bag of Skittles® contains 10 red, 9 yellow, 8 orange, 6 green, and 4 blue colored candies. What is the probability of randomly choosing an orange-colored candy from the bag?

A. 8/37

B. 37/8

C. 8/27

D. ¾

Correct Answer: A

The probability of selecting a single orange-colored candy from a bag of Skittles® requires 8 successful outcomes out of 37 possible outcomes. So the probability of selecting a single orange- colored candy is: p= 8/37

QUESTION 2

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 3

A student obtained an average of 86 for a series of seven assignments. Six of the grades were 85, 78, 83, 91, 89, and 86. The grade of the seventh assignment is:

A. 74

B. 86

C. 90

D. 98

Correct Answer: C

From the information in the problem,

$$\text{Average} = \frac{\text{Sum of Terms}}{\text{Number of Terms}}$$

$$86 = \frac{85+78+83+91+89+86+x}{7} = \frac{512+x}{7}$$

$$x = 86 \times 7 - 512 = 602 - 512 = 90.$$

QUESTION 4

1/3 ÷ 5/9 =

A. $\frac{3}{5}$ B. $\frac{5}{3}$ C. $\frac{5}{9}$ D. $\frac{1}{9}$

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

The quotient of the two fractions can be found by writing the fractions as:

$$\frac{1}{3} \div \frac{5}{9} = \frac{\frac{1}{3}}{\frac{5}{9}} = \left(\frac{1}{3}\right) \cdot \left(\frac{9}{5}\right) = \frac{3}{5}.$$

QUESTION 5

Evaluate the following derivative: d/dx(5a4)

A. 0

B. 5z4

C. 20a3

D. 5a3

Correct Answer: A

You begin by solving the integral and then evaluating the result between the limits of 2 and 4.

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

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