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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

If ,

$$\sqrt[3]{x} = y^4$$

then what is x in terms of y?

A. x=y12

B. x=y7

C. x = y4

D. x=y

Correct Answer: A

QUESTION 3

If and x/y = 8 and x=64, then what is the sum x + y?

A. 56

B. 64

C. 72

D. 81

Correct Answer: C

From the first equation, multiply both sides byyresulting in x= 8y.

Becausex= 64, you can write

64 = 8y

Y=8

Substituting the given information regardingxandyinto its sum yields:

x+y= 64 + 8 = 72.

QUESTION 4

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.

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

QUESTION 5

What is the probability that two cards drawn from a deck of cards are face cards (king, queen, or jack) of any suit if the first card drawn is replaced before the second card is drawn?

A. 9/169

B. 1/16

C. 3/13

D. 1/26

Correct Answer: A

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