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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. $\frac{8}{37}$
- B. $\frac{37}{8}$
- C. $\frac{8}{27}$
- D. $\frac{3}{4}$

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: $p = \frac{8}{37}$

QUESTION 2

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

- A. 3
- B. -3
- C. 0
- D. undefined

Correct Answer: C

The slope of a line that passes through the points (3, 3) and (3, -3) can be found by:

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - (-3)}{3 - 3} = \frac{6}{0} = \text{undefined}$$

QUESTION 3

Evaluate the following derivative:

$$\frac{d}{dx}(6x^4 - 4x^3)$$

- A. $24x^3 - 12x^2$
- B. $24x^3 + 12x^2$



- C. $24 \times 3 \times 12 \times 2$
- D. $24 \times 3 + 12 \times 2$

Correct Answer: C

QUESTION 4

The three most commonly used temperature scales are Fahrenheit (°F), Celsius (°C), and Kelvin (K). They are based on the freezing point and boiling point of water as shown below.

| Temperature Scale | Freezing Point of Water | Boiling Point of Water |
|-------------------|-------------------------|------------------------|
| Fahrenheit (°F) | 32 | 212 |
| Celsius (°C) | 0 | 100 |
| Kelvin (K) | 273 | 373 |

The formula for temperature conversion between the Fahrenheit and Celsius scales is

$$T_F = \frac{9}{5}T_C + 32$$

What is the linear equation relating temperature in Fahrenheit to temperature in Kelvin?

- A. $T_F = -\frac{9}{5}T_K + 459.4$
- B. $T_F = \frac{9}{5}T_K + 459.4$
- C. $T_F = \frac{9}{5}T_K + 459.4$
- D. $T_F = \frac{9}{5}T_K - 459.4$

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: D

QUESTION 5



Evaluate the following derivative: $d/dx(5x^4)$

- A. 0
- B. $5x^4$
- C. $20x^3$
- D. $5x^3$

Correct Answer: C

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