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QUESTION 1

In a classroom of 189 students, the ratio of boys to girls is 5 : 4. How many boys are there in the classroom?

A. 38

B. 84

C. 105

D. 120

E. 155

Correct Answer: C

The simplest way to approach these problems is to divide the total number of students (189) by the

combined 'parts' (5 + 4 = 9). Thus 189 ÷ 9 = 21.

Multiply 21 by the gender of interest ratio (5): 21 × 5 = 105 male students.

For females you would multiply 21 by 4 = 84 female students.

Add 105 + 84 to verify = 189.

QUESTION 2

Which of the following is incorrect in regards to mitosis and meiosis?

A. Both mitosis and meiosis have 1 round of replication.

B. Meiosis has 2 rounds of division.

C. Mitosis has 1 round of division.

D. There is no crossing over in mitosis.

E. None of the above.

Correct Answer: E

All of the answer choices are indeed correct.

QUESTION 3

Solution A has a pH of 2, whereas Solution B has a pH for 4.5. How much more acidic is Solution A over Solution B?

A. 10x more acidic

B. 2.25x more acidic

C. 100x more acidic

D. 315x more acidic

E. 1000x more acidic

Correct Answer: D

There is a difference of pH of 2.5. We know that difference is acidity can be calculated with 10x, where x = difference in acidity.

102.5 is a number you cannot calculate in your head without a calculator. But you know 102 = 100, and 103 = 1000. Thus, you know the answer relies between 100 and 1000, and there is one answer choice that is in between those 2 values (but not the actual values).

QUESTION 4

A 1-gallon bottle containing 20% apple juice is mixed with a 2-gallon bottle containing 30% apple juice. What is the percentage of apple juice in the 3-gallon mixture?
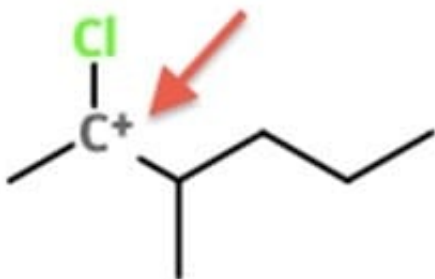
A. 23%

B. 27%

C. 30%

D. 50%

E. 59%

Correct Answer: B

This question can be solved in numerous ways. If 1 gallon has 20% apple juice, it means apple juice consists of 0.2 gallons. If the 2 gallon has 30% apple juice, it means apple juice consists of 0.6 gallons. Thus, there are a total of 0.8 gallons of apple juice in the mixture of the total 3 gallons.

Find the percentage: (0.8 gallons of apple juice / 3 total gallons) × 100 = ~27%

QUESTION 5

What is the hybridization of this atom?

A. sp

B. sp2

C. sp3

D. s

E. 2s2

Correct Answer: B

Pay special attention to the `+\\' symbol indicating a cation. If it lacked a positive or negative sign, it would be a sp3 hybridization.