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QUESTION 1

Ma\Tia drove 400 miles in 6 hours. She has an additional 180 miles to drive. If she drives at the same rate of speed, how long will it take her rounded to the nearest hour?

- A. 3 hours
- B. 2 hours
- C. 4 hours
- D. 1 hour

Correct Answer: A

$$400/6 = 180/x, 400x = 1080, x = 2.7.$$

Rounded to the nearest hour, it will take her approximately 3 hours.

QUESTION 2

If $(3a + a) - (2b - 3) = 7$, find the values for 'a' and 'b'.

- A. $a = 2, b = 3$
- B. $a = 2, b = 4$
- C. $a = 4, b = 6$
- D. $a = 2, b = 2$
- E. More than 1 answer choice is correct.

Correct Answer: E

The easiest way to solve these is NOT to perform step by step algebra solutions that practice test makers put in their solutions manual, but to simply (and quickly) plugin the answer choices and see if it works! Especially for a short, simple algebra problem like this one. In this scenario, both answer choices C and D work.

QUESTION 3

A female has 45 chromosomes, possessing only one X chromosome. She is sterile with no tangible ovaries. What condition does she possess?

- A. Klinefelter syndrome
- B. Turner syndrome
- C. Trisomy 21
- D. Patau syndrome

E. Cri du chat syndrome

Correct Answer: B

This is indeed the definition of the Turner syndrome.

QUESTION 4

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 $189 \div 9 = 21$.

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

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

Add $105 + 84$ to verify = 189.

QUESTION 5

If K_{eq}

A. Contains less reactants than products.

B. Contains less products than reactants.

C. There is equal amounts of products and reactants.

D. Contain more products than reactants.

E. None of the above.

Correct Answer: B

If $K_{eq} > 1$, then the equilibrium reaction will contain less reactants than products.