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QUESTION 1

What does 4x – 1/2y equal if x = 9 and y = 6?

A. 36

B. 33

C. 30

D. 26

Correct Answer: B

QUESTION 2

Which of the following does hemoglobin bond most strongly with?

A. oxygen

B. carbon dioxide

C. carbon monoxide

D. hydrogen

Correct Answer: C

Hemoglobin bonds most strongly with carbon monoxide as a result of the interaction of the orbitals of the hemoglobin and the carbon monoxide molecule. The carbon forms an ionic bond with the hemoglobin\\'s iron, and because of the joint configuration, the iron is able to donate additional electrons to the carbon monoxide.

QUESTION 3

Which hormone is released after a meal high in carbohydrates?

A. insulin

B. glucagon

C. EPO

D. ghrelin

Correct Answer: A

When the blood stream is over saturated with glucose (as a result of a meal high in carbohydrates), the pancreas releases insulin in order to regulate the glucose levels in the blood.

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QUESTION 4

If number x is subtracted from 27, the result is -5. What is number x?

A. 22

B. 25

C. 32

D. 35

Correct Answer: C

In this problem, if you do not know how to solve, try filling in the answer choices to see which one checks out. Many math problems may be solved by a guess and check method when you have a selection of answer choices. 27 - x = -5x =

QUESTION 5

George can run 25 miles in the same amount of time that his brother, Alan, can run 15 miles. If George runs 3 miles per hour faster than Alan, how fast does Alan run?

A. 10

B. 4.5

C. 15

D. 7.6

Correct Answer: B