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**QUESTION 1**

John is running towards a finish line at 10 m/s and is 50 m away. Bolt is running at 14 m/s but is 75 m away. Assuming they keep their constant speed, who will reach the finish line first?

- A. John
- B. Bolt
- C. It is a tie
- D. Neither will finish

Correct Answer: A

Calculate how long it will take each runner to finish, the shorter time length indicates the first to finish. Recall that:

distance = rate × time:

$$\frac{50 \text{ m}}{10 \text{ m/s}} = 5 \text{ s}$$

$$\frac{75 \text{ m}}{14 \text{ m/s}} \approx 5.4 \text{ s}$$

John (5 seconds) finishes before Bolt (5.4 seconds).

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**QUESTION 2**

Which of the following are reducing agents?

- A. FADH<sub>2</sub>
- B. NAD<sup>+</sup>
- C. NADH
- D. Both A and C

Correct Answer: D

Reducing agents are those that donate electrons in redox chemical reactions. Cellular respiration involves the carrying of electrons by both FADH<sub>2</sub> and NADH, because both must be included in the answer.

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**QUESTION 3**

If a recipe calls for 3 parts sugar and 2 parts milk, and a total of 45 oz is made, how much milk is there?

- A. 18 oz

- B. 9 oz
- C. 27 oz
- D. 18 parts

Correct Answer: A

The ratio of sugar to milk is  $3x : 2x$ . Combining these and setting the amount equal to the given total:

$5x = 45$  ?gt;  $x = 9$  Plugging this back in to find the total amount of milk:  $2 \cdot 9 = 18$  oz

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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.  $27 - x = -5x$   
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#### QUESTION 5

##### PLASTICS

Plastics have long been considered one of the great conveniences of the modern era, but evidence is mounting to indicate that these conveniences have come at an incredible cost. The chief benefit of plastics is their durability, but this benefit turns out to be the same reason plastic has become a significant problem: It takes 200 to 400 years to decompose. All of this plastic has accumulated into a catastrophic mess and has also caused disease in humans.

Between Hawaii and Japan, a giant mass of plastic twice the size of Texas slowly swirls with the currents of the Pacific Ocean. This area has come to be known as the Great Pacific Garbage Patch, and its effects on the ecology of the ocean are unimaginable. According to United Nations researchers, a hundred thousand sea mammals and a million seabirds die each year. They are found with cigarette lighters, syringes, and other plastics that they mistake for food in their stomachs.

Evidence also indicates that the plastic receptacles that people store their food in poses health risks. For instance, phthalates have been shown to have detrimental effects on the reproductive system, yet they are found in many plastic products including baby bottles and water bottles. They have also been linked to various forms of cancer. Additionally, a chemical called bisphenol A that is found in many plastics can mimic the effects of the hormone estrogen, which can also affect the reproductive system.

As used in this passage, the word "mimic" most nearly means:

- A. Intensify
- B. Reduce
- C. Cancerous
- D. Resemble

Correct Answer: D

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