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QUESTION 1

A man decided to buy new furniture from Futuristic Furniture for \$2600. Futuristic Furniture gave the man two choices: pay the entire amount in one payment with cash, or pay \$1000 as a down payment and \$120 per month for two full years in the financial plan. If the man chooses the financial plan, how much more would he pay?

- A. \$1480 more
- B. \$1280 more
- C. \$1600 more D. \$2480 more

Correct Answer: B

Multiply \$120 by 24 months (a full two years) to get \$2880. Add the thousand dollars for the down payment to get \$3880. Find the difference between the entire amount all at once (\$2600) and the amount paid in the plan (\$3880). To find the difference, you subtract. The difference shows that \$1280 more is paid with the installment plan.

QUESTION 2

Which of the following phase changes leads to a positive change in entropy value?

- A. Fusion
- B. Melting
- C. Sublimation
- D. Vaporization
- E. All of the above

Correct Answer: E

All of the answer choices lead to a positive change of entropy value. Also note, Fusion and Melting are the same thing.

QUESTION 3

You blow up a rubber balloon and hold the opening tight with your fingers. You then release your fingers, causing air to blow out of the balloon. This pushes the balloon forward, causing the balloon shoots across the room. Which of Newton's laws best explains the cause of this motion?

- A. First law
- B. Second law
- C. Third law
- D. Law of gravity

Correct Answer: C



All three laws are operating, but the third law (forces come in equal and opposite pairs) best explains the motion. The first law (inertia) is shown from the fact that the balloon doesn't move until a force acts upon it. The second law ($F = ma$) is shown because you can see the force and the acceleration. The force comes from the contraction of the rubber balloon. The stretched rubber exerts a force on the air inside the balloon. This causes the air to accelerate in accordance with the second law. You can't see this acceleration because the air is invisible and because it is all the air in the room that the balloon is exerting a force on. However, the air in the room exerts an equal and opposite force on the balloon (this is Newton's third law), which causes the balloon to accelerate in the direction it did.

QUESTION 4

Which of the following proteins are incorrectly matched to their functions?

- A. DNA Topoisomerase: relaxes supercoiling.
- B. Helicase: Unwinds the double helix of the DNA by breaking the hydrogen bonds.
- C. DNA Polymerase I: Removes and replaces the RNA primer with DNA.
- D. DNA Ligase: Joins DNA segments together, as seen with Okazaki fragments.
- E. None of the above.

Correct Answer: E

All of the answer choices are correct. These proteins are components of DNA replication and should be known.

QUESTION 5

$$\frac{5}{8} = \frac{w}{3}$$

$w = ?$

- A. $5/24$
- B. $15/24$
- C. $1 \frac{7}{8}$
- D. $1 \frac{15}{8}$
- E. 8

Correct Answer: C

This is a simple algebraic problem. Multiply both sides by 3 to get 'w' alone. This results in $15/8$, which is equivalent to $1 \frac{7}{8}$.



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