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QUESTION 1

On a bad day, have you ever been irritable? Have you ever used a harsh tone or even been verbally disrespectful to your parents or teachers? Everyone has a short temper from time to time, but current statistics indicate that between 16% and 20% of a school population suffer from a psychological condition known as Oppositional Defiance Disorder, or ODD.

ODD symptoms include difficulty complying with adult requests, excessive arguments with adults, temper tantrums, difficulty accepting responsibility for actions, low frustration tolerance, and behaviors intended to annoy or upset adults. Parents of children with ODD can often feel as though their whole relationship is based on conflict after conflict.

Unfortunately, ODD can be caused by a number of factors. Some students affected by ODD suffer abuse, neglect, and severe or unpredictable discipline at home. Others have parents with mood disorders or have experienced family violence. Various types of therapy are helpful in treating ODD, and some drugs can treat particular symptoms. However, no single cure exists.

The best advice from professionals is directed toward parents. Therapists encourage parents to avoid situations that usually end in power struggles, to try not to feed into oppositional behavior by reacting emotionally, to praise positive behaviors, and to discourage negative behaviors with timeouts instead of harsh discipline.

According to the passage, which of the following is a cause of ODD?

- A. Poor diet
- B. Low IQ
- C. Excessive television viewing
- D. Severe or unpredictable punishment

Correct Answer: D

QUESTION 2

How many solutions does the equation have?

$$\sqrt{2+x} - x = 0$$

- A. 3
- B. 2
- C. 1
- D. 0

Correct Answer: C

A solution to an equation is a value that when plugged in yields a true statement. Begin by isolating the square root and squaring both sides to eliminate it:

$$\sqrt{2+x} = x \rightarrow 2+x = x^2$$



Move all of the terms to one side and factor to solve for x:

$$x^2 - x - 2 = 0 \text{ --andgt; } (x + 1)(x - 2) = 0 \text{ --andgt; } x = -1, x = 2$$

Check for extraneous solutions by plugging both solutions into the original equation:

$$\sqrt{2 + (-1)} - (-1) = 0$$

--andgt; $2 \neq 0$, so $x = -1$ is extraneous. --andgt; $0 = 0$, so $x = 2$ is a solution. The equation has only 1 solution.

QUESTION 3

Lex's mom buys 3 of each kind of cookie for a picnic. If the store gives a 10% discount for purchase of a dozen cookies, how much did she spend?

- A. \$22.60
- B. \$21.60
- C. \$23.00
- D. \$24.00

Correct Answer: B

$$\$6 + \$4.50 + \$7.50 + \$6 = \$24. \text{ 10\% of } \$24 = \$2.40. \$24 - \$2.40 = \$21.60.$$

QUESTION 4

Which of the following reactions creates an alkene?

- A. addition
- B. substitution
- C. hydration
- D. dehydration

Correct Answer: D

Dehydration involves the loss of an H₂O molecule from the reacting molecule. Recall that the general structure of alcohols is: C_nH_{2n+1}OH. The removal of H₂O from an alkyl group results in a molecule of the general form: C_nH_{2n}, also known as an alkene.

QUESTION 5

Human predation has caused the population of cheetahs to decline dramatically. Changes in allele frequencies in the remaining population of cheetahs would most likely be due to:

- A. Natural selection



- B. Gene flow
- C. The founder effect
- D. The bottleneck effect
- E. Mutation

Correct Answer: D

The bottleneck effect occurs when populations undergo a dramatic decrease in size. It could be due to natural or artificial causes.

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