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QUESTION 1

A circle is stretched out and its circumference is increased by 10%. What is the percent increase of the area of that circle?

- A. 10%
- B. 16%
- C. 21%
- D. 25%
- E. 30%

Correct Answer: C

The circumference of a circle can be expressed with the following formula: $C = 2\pi r$

Notice how this means the radius is proportional to the circumference. This means that a percentage increase in the circumference will have the same percentage increase in the radius. Thus, if the circumference increases by 10%, so does the radius. Insert a random value for the radius. For this example, 10 will be used. If we were to increase the circumference by 10%, the radius (10) must also be increased by 10%. 10% of 10 is 1, thus an additional 10% of 10 will be 11.

The area of a circle can be expressed with the following formula: $A = \pi r^2$. If we insert our original radius value of 10, our area will be: $\pi(10)^2 = 100\pi$.

The area of our modified and expanded circle will be: $\pi(11)^2 = 121\pi$.

To find the percentage increase: $\frac{(121\pi - 100\pi)}{(100\pi)} \times 100 = 21\%$

QUESTION 2

An mRNA strand has the following sequence: 5' CUAUUG 3'. Identify the DNA coding strand:

- A. 5' CAATAG 3'
- B. 5' GAUAAC 3'
- C. 5' CTATTG 3'
- D. 5' CUAUUG 3'
- E. 5' CGCTTA 3'

Correct Answer: C

The coding strand is the DNA strand that is not transcribed into mRNA. The coding strand is identical to the mRNA strand, except with T's instead of U's. The template strand (choice 5' CAATAG 3') is what gets transcribed into mRNA.



Understand the difference between coding and template strands as well as base-pair rules.

QUESTION 3

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.

As used in this passage, the phrase low frustration tolerance most nearly means:

- A. The ability to cope with frustration
- B. Patience
- C. Low IQ
- D. Difficulty dealing with frustration

Correct Answer: D

QUESTION 4

Solve for x:

$$(42)8x = 265$$

- A. $\frac{1}{4}$
- B. $\frac{1}{2}$
- C. $\frac{3}{4}$
- D. 2
- E. $\frac{8}{5}$

Correct Answer: A



QUESTION 5

Stefan's scores on his English essays were 75, 65, 80, 95, and 65. What is the average of his test scores?

- A. 66
- B. 71
- C. 65
- D. 76

Correct Answer: D

$$(75 + 65 + 80 + 95 + 65) / 5 = 76.$$

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