



GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

Out of a classroom of 6 boys and 4 girls the teacher picks a president for the student board, a vice president and a secretary. What is the probability that only girls will be elected?

- A. $8/125$.
- B. $2/5$.
- C. $1/30$.
- D. $1/720$.
- E. $13/48$.

Correct Answer: C

The basic principle of this question is that one person can't be elected to more than one part, therefore when picking a person for a job the "inventory" of remaining people is growing smaller.

The probability of picking a girl for the first job is $4/10 = 2/5$.

The probability of picking a girl for the second job is $(4-1)/(10-1) = 3/9$.

The probability of picking a girl for the third job is $(3-1)/(9-1) = 1/4$.

The probability of all three events happening is: $2/5 \times 3/9 \times 1/4 = 1/30$.

QUESTION 2

A(5, w³) is the (x, y) coordinate of point located on the parabola $Y = X^2 + 2$.

What is the value of w?

- A. 3.
- B. 4.
- C. 5.
- D. 6.
- E. 9.

Correct Answer: A

Plug into the equation the coordinate to get: $w^3 = 5^2 + 2 = 27$ $w = 3$.

QUESTION 3



Merline made a \$360,000 mortgage on a house. How much interest total will she pay?

(1)

The simple interest rate is 8.5% annually.

(2)

It will take Merline 12 years to return the loan on the house.

A.

Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.

B.

Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.

C.

Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.

D.

Either statement BY ITSELF is sufficient to answer the question.

E.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

Statement (1) implies that the annual interest is 8.5%. it is not sufficient by itself since we do not have the time period of the return.

Statement (2) implies that 12 years have passed until Merline paid the loan but we do not have the interest rate.

During the 12 years, we can calculate the interest every year until we reach 12 years. Both statements together are sufficient.

A simple interest can be calculated using the following formula:

Principle (money loaned or invested)*rate (percent) *time = interest paid

QUESTION 4

When the integer Y is divided by 11, the remainder is 3.

Which of the following can't be a multiple of (Y+1)?



- A. $2Y + 2$.
- B. $1.5Y + 9$.
- C. $2.5Y - 5$.
- D. $3Y + 3$.
- E. $3Y - 5$.

Correct Answer: E

Plug in a number that will give a remainder of 3 when divided by 11, for example 14. We are looking for a number that is not a factor of $(Y+1 = 15)$. The only answer that is not a factor of 15 is E. $3Y - 5 = 37$.

QUESTION 5

Of the 10,000 people that went to the state-fair, how many men ate at the fair?

- (1)
The percentage of men who ate at the state-fair was twice as those who didn't eat.
- (2)
3,500 women ate at the state-fair.
- A.
Statement (1) BY ITSELF is sufficient to answer the question, but statement (2) by itself is not.
 - B.
Statement (2) BY ITSELF is sufficient to answer the question, but statement (1) by itself is not.
 - C.
Statements (1) and (2) TAKEN TOGETHER are sufficient to answer the question, even though NEITHER statement BY ITSELF is sufficient.
 - D.
Either statement BY ITSELF is sufficient to answer the question.
 - E.
Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: E

From statement (1) we know the ratio between the men who ate to those who didn't, but we don't know how many men were at the fair. Statement (2) doesn't reveal the number of woman that went to the fair, only the number of woman that ate there. Therefore, more data is needed to answer the question.



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