



GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

If $A = 2B$, is $A^4 > B^4$?

(1)

$$A^2 = 4B^2.$$

(2)

$$2A + B$$

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: B

Explanation: Statement (1) is insufficient. Take $A=0$ and $B=0$, (1) is correct yet A^4 is not bigger than B^4 . Take different numbers, $A=6$ and $B=12$ A^4 is larger than B^4 . Statement (2) is sufficient. The only possible way that A will not be larger than B is if they are both zero. (2) Claims that A

QUESTION 2

If X is a root of the equation $a^3 + 8a^2 - 20a$, then which of the following equations Don't have the root X as one of their roots?

A. $X^3 + 4X^2 - 32X$.

B. $X^2 + 18X + 80$.

C. $X^2 - 12X + 20$.

D. $X^2 + 5X - 14$.



E. $X^2 + 10X + 16$.

Correct Answer: E

The original equation is $a^3 + 8a^2 - 20a$, it can be written as $a(a-2)(X+10)$. The roots are 2, 0 and (-10). We are looking for an equation that has none of the same roots. Answer E: $X^2 - 10X + 16 = (X+2)(X+8)$ This equation has none of the original roots. All the other answers have one or more of the same original roots.

QUESTION 3

An Ameba is an organic life form that divides into two Amebas each round hour. If at a certain round hour, two Amebas were placed in a jar, how many Amebas will be in the jar in N hours?

- A. $2N$
- B. $22N$
- C. $2N+1$
- D. $2N-1$
- E. $2N$

Correct Answer: C

Let's find the number of Amebas in the first hours. After one hour ($N=1$) there will be 4 Amebas. After two hours ($N=2$) there will be 8 Amebas. After three hours ($N=3$) there will be 16 amebas. Therefore the formula that fits this series is $2N+1$.

QUESTION 4

If a is an even integer and b is an odd integer, what must the expression $a^3 + b^3$ be?

- A. Always even
- B. Always odd
- C. Always a fraction
- D. Could be a fraction
- E. Always an integer

Correct Answer: E

Since the even number a is raised to the power of 3, it is always divisible by 8. Therefore, the whole expression must be an integer, an even or an odd one. Of course, the expression cannot be a fraction.

QUESTION 5



If the sum of six numbers is between 135 and 164, then the average (arithmetic mean) of the six numbers could be which of the following?

- A. 15.4.
- B. 20.5.
- C. 25.5.
- D. 31.25.
- E. 32.5.

Correct Answer: C

Define X as the sum of all the six numbers, 135

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