
**Vendor:**Admission Test

**Exam Code:**GMAT-QUANTITIVE

**Exam Name:**GMAT-Quantitive Practice Test

**Version:**Demo

**QUESTION 1**

If ( 0

A. 11.

B. 13.

C. 17.

D. 10.

E. 7.

Correct Answer: D

Every prime number except 2 is an odd number. If Y = 2, than X must have been 1 because X is smaller than Y but this answer doesn\\'t appear among the answers and therefore Y is odd. If X and Y are both odd numbers, their sum must be an even number. The only even answer is D.

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**QUESTION 2**

The net value of a certain stock increased at a constant rate during the ten-year period between 1990 and 2000. What was the value of the stock in the year 1998?

(1)

In 1991, the value of the stock was 130 U.S dollars.

(2)

In 1992, the value of the stock was 149.5 U.S dollars.

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

We are told that the stock increases its value by a constant rate and therefore we need to find some kind of pattern in order to know the value every year. Statements (1) and (2) taken together are sufficient since they give us the percent increase of the stock from 1991 to 1992, which is 15%. The value of the stock in 1998 can be easily calculated, add 15% every year until 1998.

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**QUESTION 3**

Q and R are numbers between 0 and 9. When multiplying 71 by another double-digit number the result is 7PQ. Which of the following could represent Q?

A. 1.

B. 8.

C. 3.

D. 5.

E. 4.

Correct Answer: A

We have two choices: 71 x 10 = 710 or 71 x 11 = 781. Therefore Q can be 0 or 1. The answer is A.

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**QUESTION 4**

How many four-digit numbers that do not contain the digits 3 or 6 are there?

A. 2401

B. 3584

C. 4096

D. 5040

E. 7200

Correct Answer: B

The first digit has 7 possibilities (10 – 0, 3 and 6). The other three digits have 8 possibilities each. 7*8*8*8= 3584. The correct answer is B.

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**QUESTION 5**

What is the value of AB?

(1)

A + 4 = 3A -8.

(2)

B2 -12B + 36 = 0.

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) is insufficient by itself. The value of A from this statement is 6. Statement (2) can be written as (B -6)2 = 0 and therefore the value of B is 6. Combine both statements to calculate the value of the required expression AB.

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**QUESTION 6**

At the faculty of Aerospace Engineering, 312 students study Random-processing methods, 232 students study Scramjet rocket engines and 112 students study them both. If every student in the faculty has to study one of the two subjects, how many students are there in the faculty of Aerospace Engineering?

A. 424.

B. 428.

C. 430.

D. 432.

E. 436.

Correct Answer: D

Use the group formula.

Total = groupA + groupB Both + Neither.

Total = 312 + 232 -112 + 0 = 432 students.

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**QUESTION 7**

When the integer X is divided by 5, the remainder is 2.

Which of the following can be a multiple of (X+3)?

A. 8X + 7.

B. 9X ?3.

C. 11X ?4.

D. 13X.

E. 13X + 1.

Correct Answer: B

Plug in a number that will give a remainder of 2 when divided by 5, for example 7.

We are looking for a number that is a factor of 10.

The only possible answer is B 9 x 7 ?3 = 60, and that is a factor of 10.

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**QUESTION 8**

X and Y are integers, X is even and negative, Y is odd and positive. Which of the following could be false?

1.

(X + Y) is an odd number.

2.

Y(X + Y) is an integer.

3.

XY is a positive number.

A. 2 only.

B. 3 only.

C. 1 and 3 only.

D. 2 and 3 only.

E. 1, 2 and 3.

Correct Answer: D

Find opposing examples for each of the statements.

1: An odd number + an even number are always an odd number.

2: Try the numbers: X=-4, Y=3 3(-1) = 1/3 which is not an integer.

3: Try the numbers: X=-2, Y=3 XY = (-2)3 = -8, which is not positive. Statements 2 and 3 are not necessarily true.

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**QUESTION 9**

What is the value of A + B?

(1)

A = 8 -B.

(2)

(A + B)2 -64 = 0.

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: A

From statement (1) we know right away that A + B = 8.

From statement (2) we don\\'t know if A + B = 8 or -8.

Therefore only statement one is sufficient to answer the question.

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**QUESTION 10**

X, Y and Z are three positive integers. If Z = 2, what is their sum?

(1)

X -Y = 5.

(2)

3Y + 15 = 3X.

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

We need to find the value of X + Y since Z is already given to us. Statement (1) is insufficient since we need the sum of X and Y. Statement (2) can be written as: 3X -3Y = 15 X -Y = 5, you can see that both statements are the same and therefore more sufficient data is required.

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**QUESTION 11**

Danny, Doris and Dolly flipped a coin 5 times and each time the coin landed on "heads". Dolly bet that on the sixth time the coin will land on "tails", what is the probability that she\\'s right?

A. 1.

B. ?

C. ?

D. ?

E. 1/3.

Correct Answer: B

The probability of the coin is independent on its previous outcomes and therefore the probability for "head" or "tail" is always ?

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**QUESTION 12**

If x and y are positive integers (x>y), what is the units\\' digit of (10x ?9y)2 ?

A. 9.

B. 7.

C. 5.

D. 3.

E. 1.

Correct Answer: E

Try some numbers, x=2, y=1.

(106 -92)2 = 81. And it will work with any given number under the conditions given.