



# GMAT-QUANTITIVE<sup>Q&As</sup>

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### QUESTION 1

Is  $x + 1$  a factor of 12?

(1)

$x + 1$  is even.

(2)

$x + 1$  is a factor of both 2 and 3.

A.

Statement (1), BY ITSELF, will suffice to solve the problem, but NOT statement (2) by itself.

B.

Statement (2), BY ITSELF, will suffice to solve the problem, but NOT statement (1) by itself.

C.

The problem can be solved using statement (1) and statement (2) TOGETHER, but not ONLY statement (1) or statement (2).

D.

The problem can be solved using EITHER statement (1) only or statement (2) only.

E.

The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: B

Statement (1) could mean that  $x + 1 = 8$ , which is not a factor of 12. If  $x + 1$  is a factor of both 2 and 3, then  $x = 0$  and  $x + 1 = 1$ . One is a factor of every number. Statement (2) will suffice by itself.

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### QUESTION 2

If  $X$  and  $Y$  are both two-digit numbers, is  $XY$  an even number?

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The sum of  $X$  and  $Y$  gives an even number.

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The value of  $Y$  is three times the value of  $X$ .

A.

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

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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

Statement (1) isn't sufficient, X and Y can be both odd or both even, but their multiplication can be either one. Statement (2) tells us that  $Y = 3X$ , X and Y can both be even or odd from this statement and therefore this statement is also insufficient. Both of the statements imply the same thing and so combining them will not help. More data is required.

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### QUESTION 3

In a rectangular axis system, what is the distance between the following points: A(3,2) and B(7,5) ?

A. 5.

B. 7.

C. 6.

D. 4.

E. 3.

Correct Answer: A

First, draw a rectangular axis system and mark the two points. The easiest way to find the distance between them is to draw a triangle, where the line AB is the hypotenuse. You can see that the length of one side of the triangle is  $(5-2=3)$  and the other side is  $(7-3=4)$ . The length of the line AB is received with the help Of the Pythagoras principle:  $= 5$ .

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### QUESTION 4

A hose was divided into 3 smaller and different in size hoses. What is the difference between the length of the largest and the smallest hose?

(1)

The sum of the two larger hoses is 45 feet.

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(2)

The sum of the two smaller hoses is 23.

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

Translate the statements into variables: Let X, Y and Z be the three pieces of the hose, X