

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

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**QUESTION 1**

X is an even number and Y is a positive odd number. Which of the following expressions cannot be even?

- A.  $(XY) Y$
- B.  $X3Y3$
- C.  $X3$
- D.  $XY$
- E.  $Y2$

Correct Answer: E

The fastest way to solve this problem is by plugging in some numbers.

Let's say:  $X = 2, Y = 1$ .

According to answer e:  $1 \times 1 = 1$  and that must be an odd number.

The correct answer is E.

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**QUESTION 2**

What is the value of  $(X + 2Y/5)$ ?

- (1)  
 $292X - 675 + 80Y = 100 - 18X + 44Y$ .
- (2)  
 $300X + 80Y - 830 = 82.5 - 85X - 66Y$ .
- 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

Simplify statement (1). Add similar items,  $310X + 124Y = 775 \rightarrow X + 2Y/5 = 2.5$ . This statement is sufficient.

Do the same to statement (2) and you'll see that  $385X + 146Y = 912.5$ , when divided by 385:  $X + 146Y/385 = 2.5$ . This statement is insufficient.

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### QUESTION 3

If 90% of the people in Rich-Town read the Rich-Town magazin how many people read the Rich-Town news bulletin?

-There are one thousand residents in Rich-Town.

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10% of the people reading the Rich-Town magazin also read the Rich-Town news bulletin.

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

No statement here tells us that all people read any magazin at all, moreover no statement gives any data regarding the News bulletin readers that do not read the Ric-Town magazine. More data is needed to solve this question.

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### QUESTION 4

If X is divisible by 4, is Y odd?

(1)

$$Y = x + 3.$$

(2)

$$X = 4.$$

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 the question one can conclude that x is even. From statement one: an even number + odd number is an odd number. Thus, y must be odd. Statement two doesn't mention y at all, and is therefore insufficient

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#### QUESTION 5

X equals to Y% of what number?

(1)

$$X = 3Y.$$

(2)

$$6Y + 2X = 56X/14.$$

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: D

Explanation: From (1) we have X and Y and therefore we can find A easily,  $A = 300$ . (2) Is identical to (1), simplify it and see that it can be written as  $X = 3Y$ . Either statement by itself is sufficient. The correct answer is D.

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