



GMAT-QUANTITIVE^{Q&As}

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**QUESTION 1**

V, W, X, Y and Z are numbers between 0 and 9.

If $XYZ / 15 = WV$ and $V-W=X$ (WV is a 2 digit number, XYZ is a 3 digit number), which of the following numbers can represent XYZ ?

- A. 321
- B. 215
- C. 633
- D. 570
- E. 414

Correct Answer: D

We see that XYZ should be equally dividable by 15, or by 5 and 3. The only number that fits those conditions is 570.

QUESTION 2

Is $a > b$?

(1)

$$a^2 > b^2$$

(2)

$$a+d > b+d$$

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

Plug in numbers. The first statement will work when $a=3$ and $b=2$, for example and then $a^2=9$ and $b^2=4$. However, it will not work when $a=(-2)$ and $b=(-3)$, then $a^2=4$, and $b^2=9$. The second statement is sufficient, it is possible to subtract d from both sides of the inequality and get: $a+d-d>b+d-d$, or $a>b$.

QUESTION 3

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.

QUESTION 4

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.

QUESTION 5

Harris invested \$45,000 in two different ventures, a car-cleaning machine and a video mat. The yearly return on the video mat was 12% and the yearly return on the car-cleaning machine was 8%. If the total return was \$4,000, how much did Harris invest in the video mat?

A. \$8,000.

B. \$10,000.

C. \$14,000.

D. \$22,000.

E. \$35,000.

Correct Answer: B

The easiest way is to back solve the question.

Take answer B, if that is the amount Harris invested in the video mat; the annual return was \$1,200.

Therefore there are \$35,000 left to invest in the car-cleaning machine, 8% of 35,000 is \$2,800. Sum them



up; the total return is like the question asked- \$4,000.

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