

GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

If x and y are integers, is 3x(0.5)y

(1)
y = 2x.
(2)
x = 8.

Α.

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

Β.

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.

Ε.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

Use statement (1) to write the expression: 3x(0.5)2x = (0.75)x the value of this expression can be either

smaller or larger than 1, if x was only a positive integer the answer would be distinct. Use statement (2)

alone to write the expression: 38(0.5)y this expression is either bigger or smaller than 1.

Use both statements together: (0.75)8

QUESTION 2

How much is Y percent of X?

(1)

400% of Y is 90.

(2)



X percent of Y is 25.

Α.

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

Β.

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.

Ε.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: B

Statement (1) gives us data on Y only regardless to X and therefore it\\'s insufficient. Statement (2) tells us how much is X percent of Y. Make up numbers, X = 25 and Y = 100. X percent of Y is 25 but we also know how much is Y percent of X, 100 is 400% of 25 and therefore this statement is sufficient by itself.

QUESTION 3

A salesperson gets a 15% commission on each sale he makes. How many sales of \$270 each must he make in order to reach a salary of at least \$1000?

A. 15

B. 24

C. 25

D. 26

E. 52

Correct Answer: C

The commission per sale is \$40.5, multiply it by 25 sales and get to \$1012.5.

QUESTION 4

A windmill is taking advantage of strong air currents in order to produce electrical energy. On a typical day the wind speed is around 20 mph and in that speed the windmill produces 800 kw/h (kilowatts per hour). On a stormy day a



windmill produces 20% more energy. How much kw/h can three windmills produce in two hours on a stormy day?

A. 2880.

- B. 4860.
- C. 5780.
- D. 5760.
- E. 6380.

Correct Answer: D

On a stormy day, a windmill will produce 20% more energy. 20% of 800 is 160, so each windmill will give out 960 kw/h. Three windmills will give $3 \times 960 = 2880$, which is answer (a), but we want two hours so the answer is $2880 \times 2 = 5760$.

QUESTION 5

There are X dogs in the dog hound, each dog eats Y Kg of food every day. What percent of the total food weight does each dog eat?

(1)

If there were 3 dogs less then each dog could eat 1.2 Kg more than he is does now.

(2)

If there were half the dogs, each dog could eat 3 Kg more than he is does now.

Α.

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

Β.

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.

Ε.

Statements (1) and (2) TAKEN TOGETHER are NOT sufficient to answer the question, requiring more data pertaining to the problem.

Correct Answer: C

In order to know the answer we need two equations:



From statement (1) we can write: XY = (X - 3)(Y + 1.2).

From statement (2) we can write: XY = (X/2)(Y + 3).

You don\\'t need to solve the equations, the answer is C, both equations are needed to solve the question.

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