GMAT-QUANTITIVE Q&As

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QUESTION 1

Simba borrowed $12,000 from his brothers so he can buy a new sports car. If Simba returns 4.5% of that amount every 2 weeks, after how many months Simba wouldn\\'t owe his brothers any more money?

A. 8.

B. 12.

C. 15.

D. 18.

E. 20.

Correct Answer: B

Simba gives (0.045 x 12,000 = 540) to his brothers every 2 weeks, in a month he gives (540 x 2 = 1080). (12,000/1,080 is a little over 11), therefore after 12 months he won\\'t owe any more money.

QUESTION 2

If A and B are two roots of the equation X2 -.5X -17, then what is the value of A x B?

A. 15.

B. -8.

C. 16.5.

D. -7.

E. 22.

Correct Answer: D

The roots of the equation are 8.5 and (-2). The multiplication of the roots is equal to (-17).

QUESTION 3

What is the area of the square with the following coordinates: (x, y), (20, 20), (20, 5), (x, 5)?

A. 60.

B. 85.

C. 125.

D. 225.

E. It cannot be determined from the information given.

Correct Answer: D

First of all, draw the square with the given coordinates. We know only one of the square\\'s sides but it\\'s enough because it is a square and both sides are equal. The area, therefore, is (15 x 15 = 225).

QUESTION 4

A drawer holds 4 red hats and 4 blue hats. What is the probability of getting exactly three red hats or exactly three blue hats when taking out 4 hats randomly out of the drawer and immediately returning every hat to the drawer before taking out the next?

A. 1/8

B. ¼

C. ½

D. 3/8

E. 7/12

Correct Answer: C

Getting three red out of 4 that are taken out has 4 options (4! / (3!*1!)) each option has a probability of (1/2) 4 since drawing a red or blue has a 50% chance. 4*1/16= ¼ to get three red hats. The same goes for three blue hats so ¼+¼ =1/2. The correct answer is C.

QUESTION 5

Is rectangle ABCD a square?

(1)

m ABC = 90

(2)

AC CD

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

Since you know that ABCD is a rectangle, you already know that each vertex angle is 90 degrees. Statement (1) does not tell you any additional information about ABCD. Statement (2) states that the diagonals are perpendicular; a rectangle with perpendicular diagonals is a square. Statement (2) is sufficient.