GMAT-QUANTITIVE Q&As

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QUESTION 1

If X is a prime number, is Y even.

(1)

X = Y + 1.

(2)

X = 5.

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

Statement (1) is insufficient by itself since X can be even (2) or odd (3). Statement (2) is insufficient since we don\\'t know the relation between X and Y. Both statements together are sufficient since we know that X is odd and that Y is an odd number plus one, meaning an even number.

QUESTION 2

In a fuel station the service costs $2.05 per car, every liter of fuel costs 0.6$. Assuming that you fill up 3 mini-vans and 2 trucks, how much money will the fuel cost to all the cars owners total, if a mini-van\\'s tank is 65 liters and a truck\\'s tank is 120% bigger and they are all empty-?

A. 122.6$

B. 128.9$

C. 243.7$

D. 298.85$

E. 312.12$

Correct Answer: D

The cost of fuel per mini-van is: 2.05 + 65 x 0.6 = 41.05$. The cost of fuel per an executive car is: 2.05 + (65 x 2.20) x 0.6 = 2.05 + 143 x 0.6 = 87.85 $. The sum of the fuel price is: 3 x 41.05 + 2 x 87.85 = 298.85$

QUESTION 3

In a Greek restaurant there is a custom to break plates during celebrations. If after 8 celebrations there were only 6 plates left, which of the following could be the original number of plates before the celebrations?

A. 30.

B. 32.

C. 34.

D. 36.

E. 40.

Correct Answer: A

Take answer A: start with 30 plates; take out 6 so you have 24. 24 is divisible by 8 (celebrations).

QUESTION 4

A car was driving at 60 Km/h for 20 minutes, and then at 90Km/h for another 40 minutes. What was its average speed?

A. 80.

B. 75.

C. 70.

D. 65.

E. 54.

Correct Answer: A

The average speed is equal to: (Total distance)/(Total time) = (60 x 1/3 + 90 x 2/3)/1 = 80 Km/h.

QUESTION 5

A Cuban cigar would cost 1 dollar less than 1.5 times a French cigar, had the French cigar cost 0.7 dollar less than it does now. An Arabian cigar costs 50 cents more than 1.5 times the Cuban cigar. The three cigars together cost 74.7 dollars. What is the price of the French cigar?

A. 16.7$.

B. 23$.

C. 25.5$.

D. 35$.

E. 37.4$.

Correct Answer: A

Sign the French cigar as X. The Cuban cigar is 1.5(X-0.7) - 1.

The Arabian cigar is 1.5[1.5(X-0.7)-1] + 0.5.

The sum of all the three is 74.7. The correct answer is A.