GMAT-QUANTITIVE Q&As

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QUESTION 1

What is the smallest of six consecutive odd integers whose average (arithmetic mean) is x + 2?

A. x – 5

B. x – 3

C. x – 1

D. x

E. x + 1

Correct Answer: B

Remember that consecutive odd integers are numbers that are two apart in order, like 11, 13, and 15. The average of six consecutive odd integers will be an even number. If x + 2 is the average, then this value will be at the middle of the integers if they are arranged in order. Therefore, the three consecutive odd integers smaller than this are expressed as x + 1, x – 1, and x – 3 in descending order. The smallest odd integer is x – 3.

QUESTION 2

In the "Big-Reds" parking lot there are 56 vehicles, 18 of them are buses and the rest are private cars. The color of 32 vehicles is red, from which 17 are buses. How many private cars can be found in the parking lot, which are not colored red?

A.1.

B. 23.

C. 17.

D. 15.

E. 20.

Correct Answer: B

Out of 56 vehicles, 32 are colored red, therefore 24 are in different color. 17 of the red vehicles are buses, therefore (18 -17 = 1) are in different color. (24 ?1 = 23) private cars are in the parking lot with a different color than red.

QUESTION 3

In store A there are 10 pairs of pants for every 40 store B has. The price ratio between the pants in store B and the pants in store A is 3:4. If all the pants were sold in both places until the stock ran out, what is the ratio between the total amount stores A earned to the total amount store B earned?

A. 3:16.

B. 2:3.

C. 1:3.

D. 3:4.

E. 2:5.

Correct Answer: C

Plug in numbers. Pants in store A cost $3 and in Store B $4. In Store A they sold 10 pairs so they earned $40, in store B they earned (40 x 3) $120. The ratio between the money earned is 1 to 3.

QUESTION 4

If red buckets can be filled with 0.5 liters of sand and blue buckets can be filled with 0.8 liters of sand, how many buckets were filled?

-The buckets were filled with 8 liters of sand total.

-

Three more red buckets than blue were filled with sand.

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

Define R as the number of red buckets and B as the number of blue ones. From the question and statement (1) we can write the following equation: 0.5R + 0.8B = 8. This equation has three different solutions: (0 red and 10 blue), (0 blue and 16 red), and (5 blue and 8 red). Since it is possible to have no red or no blue buckets, all three solutions apply and there is not enough information. From statement (2) we can write the following equation: R = B + 3. Combining both statements will result in two equations with two unknowns, so we can solve the question. And get the third solution only.

QUESTION 5

An investment yields an interest payment of $228 each month. If the simple annual interest rate is 9%, what is the amount of the investment?

A. $28,300

B. $30,400

C. $31,300

D. $32,500

E. $35,100

Correct Answer: B

Principal × percent interest × time = interest earned

Principle × (0.09) × 1/12 = $228.

Solve to find the principal (228 × 12)/0.09= $30,400.

The correct answer is B.