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QUESTION 1

A rotameter is a device that measures flow of liquid and gases. When measuring liquid phase flows, 2.5 inches represent 60 liters per minute of liquid. With gas measurements the rotameter moves 50% of the movement he moves with the liquid phase. How many liters of gas passed through the rotameter if it measured 4 inches?

- A. 176
- B. 192
- C. 202
- D. 218
- E. 284

Correct Answer: B

The rotameter moves 50% of 2.5 meaning 1.25 inches is 60 liters of gas. The rotameter moved 4 inches. $4/1.25 = 3.2 \times 60$ liters is 192 liters measured.

QUESTION 2

How many keys are found on an average keyboard?

- (1)
There are 20 number keys on an average keyboard.
- (2)
20% of the keys on the keyboard are number keys.
- 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) gives us the number of number keys only and thus is insufficient. Statement (2) alone is insufficient because it relates to the number stated in statement (1). Both statements together are sufficient since we are told that 20 buttons is 20% of the total and therefore there are 100 buttons on the average keyboard.

QUESTION 3

If Z is a positive integer and $(192)^5$ is a multiple of $8Z$, what is the largest possible value of Z ?

- A. 5.
- B. 7.
- C. 8.
- D. 10.
- E. 12.

Correct Answer: D

Factorize $(192)^5$ and see what can be the largest value of Z . $192 = 64 \times 3 = 8 \times 8 \times 3 \rightarrow (192)^5 = (8 \times 8 \times 3)^5 = 35 \times 810$. The largest possible value of $8Z$ which is a factor of $(192)^5$ is the largest possible value of Z of which $8Z$ is a factor of 810. $Z = 10$.

QUESTION 4

One cubic centimeter is equal to 0.001 liters, is a volume of a rectangular tank larger than 0.001 liters?

(1)

The rectangular tank holds 0.3 teaspoons. There are 0.0049 liters in one teaspoon.

(2)

The dimensions of the tank are 0.5 x 0.6 x 4 centimeters.

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: D

Statement (1) gives us the amount of teaspoons that the tank holds and it gives us that conversion between teaspoons and liters. This statement is sufficient. Statement (2) is also sufficient since we are given the dimensions of the tank, we can calculate the volume and compare it to the volume of one cubic centimeter.

QUESTION 5

A rectangular courtyard with whole-number dimensions has an area of 60 square meters. Find the length of the courtyard.

(1)

The width is two more than twice the length.

(2)

The length of the diagonal of the courtyard is 13 meters.

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: D

Let x = the length of the courtyard. Statement (1) states that $2x + 2$ = the width of the courtyard. Using the formula area = length \times width, we get the equation $60 = x(2x + 2)$, which can be solved for x . Statement (1) is sufficient. Using statement (2), the diagonal divides the courtyard into two congruent right triangles. If the diagonal is 13 meters, and the dimensions are whole numbers, this must be a 5--12--13 right triangle. The length is 5 meters, and statement (2) is also

sufficient.

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