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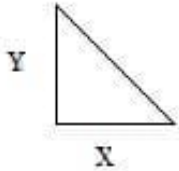
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QUESTION 1

X and Y are two sides of a triangle, is the area of the triangle an integer?



(1)

X is a prime number.

(2)

Y is an odd integer.

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. X Y

Correct Answer: E

Explanation: The area of the triangle is $XY/2$.

Statement (1) tells us that X is a prime number, that can be even (2) or odd (3, 5, 7, etc.).

Statement (2) tells us that Y is an odd integer.

The multiplication of X and Y can be an odd number or an even number, thus we cannot determine if the

area of the triangle is an integer or not. The correct answer is E.

QUESTION 2

The width of a cube is half the length and one third of the height. If the length of the cube is 4 meters, what is the volume of three identical cubes?

- A. 96.
- B. 88.
- C. 74.
- D. 68.
- E. 62.

Correct Answer: A

Normalize all the dimensions to the width. Let the width be X .

The length is twice the width, thus $2X$.

The height is 3 times the width, thus $3X$.

The volume of the cube is $= 6X^3$.

The length is equal to 4 $2X = 4 X = 2$ Volume $= 6 \times 8 = 48$.

The volume of two cubes will be 96.

QUESTION 3

What is the ratio of the corresponding sides of two similar triangles?

(1)

The ratio of the perimeters of the two triangles is 3:1.

(2)

The ratio of the areas of the two triangles is 9:1.

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

Either statement is sufficient. The ratio of the perimeters of two similar triangles is equal to the ratio of the corresponding sides. Also, the ratio of the areas of two similar triangles is equal to the squares of the ratios of the corresponding sides.

QUESTION 4

In how many combinations can we choose 2 students out of 10 if each student is needed to fill a different roll in the student's council?

A. 110.

B. 45.

C. 55.

D. 90.

E. 100.

Correct Answer: C

For the first roll there are 10 free students, for the second roll there are only 9 left. Therefore we have (10×9) 90 combinations total.

QUESTION 5

12 liters of a certain water-based color contain A liters of water and B liters of color. How many liters of water are in the water-based color?

(1)

$$A^2 + 16 = 8A.$$

(2)

$$B^2 - 2B = 48.$$

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) can be written as: $(A - 4)^2 \rightarrow A = 4$ and $B = 12 - 4 = 8$. Sufficient. Statement (2) can be written as: $(B + 6)(B - 8) \rightarrow B = -6$ or $B = 8$ but B must be a positive, so $B = 8 \rightarrow A = 12 - 8 = 4$. Either statement by itself is sufficient.

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