

GMAT-QUANTITIVE^{Q&As}

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QUESTION 1

Danny can divide his herd into 5 equal parts and also to 6 equal parts, but not to 9 equal parts. What could be the number of cows Danny has in his herd?

- A. 155.
- B. 336.
- C. 180.
- D. 120.
- E. 456

Correct Answer: A

The number of cows is divisible by 5 and 6 but not by 9. Meaning it must end with a 5 or a 0 and be divisible by 3 (the sum of its digits is divisible by 3). That leaves answers C and A only. However, 180 is also divisible by 9 and is ruled out.

QUESTION 2

Daniel rides to school each day on a path that takes him first to a point directly east of his house and then from there directly north to his school. How much shorter would his ride to school be if he could walk on a straight-line path directly to school from his home, instead of east and then north?

(1)

The direct straight-line distance from home to school is 17 miles.

(2)

The distance he rides to the east is 7 miles less than the distance he rides going north.

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: C

To solve this problem, you need to find the distance east and north that he travels. Since he goes directly east and then directly north, his path forms a right angle, which in turn is part of a right triangle. His straight-line distance to school is the hypotenuse of the right triangle formed by his paths. Although statement (1) gives you the hypotenuse, you do not know enough information to solve for the other sides. Statement (2) gives the relationship between the two legs of the right triangle, but again this is not enough information. Using the information from both statements, you can write an equation using the Pythagorean theorem: $a^2 + b^2 = c^2$. Let x = the distance he travels east and $x + 7$ = the distance he travels north. $x^2 + (x + 7)^2 = 172$. This equation can now be solved for the missing legs and therefore the solution to the problem.

QUESTION 3

Arnold and Danny are two twin brothers that are celebrating their birthday. The product of their ages today is smaller by 9 from the product of their ages a year from today. What is their age today?

- A. 7.
- B. 2.
- C. 9.
- D. 4.
- E. 5.

Correct Answer: D

Back solve using the answers. Take the age 4.

$4 \times 4 = 16$. $16 + 9 = 25$. And in one year they'll be 5 so $5 \times 5 = 25$.

QUESTION 4

If a kid is chosen randomly from his class, what is the probability that he would have blue eyes?

(1)

The class is in Denmark, where 95% of the population has blue eyes.

(2)

5% of the class has brownish eyes.

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: E

We need to know the ratio between the numbers of blue-eyed kids in the class to the others. Statement (1) gives us data about the average population but not specifically on the class. Statement (2) implies that 5% have brown eyes, but that doesn't necessarily mean that others have blue eyes, they could have green eyes as well.

More sufficient data is required.

QUESTION 5

Celeste worked for h hours each day for d consecutive days. If she earns \$9.50 per hour, what is the total amount she earned?

A. $9.50/d + h$

B. $9.50 + d + h$

C. $9.50 + dh$

D. $9.50h + d$

E. $9.50dh$

Correct Answer: E

Suppose Celeste worked for 8 hours each day for 5 consecutive days. Her total pay would be found by finding her total hours ($8 \times 5 = 40$) and then multiplying 40 by her pay per hour (\$9.50).

Since you are only multiplying to solve the problem, the expression is $9.50 \times d \times h$ or $9.50dh$.