GMAT-QUANTITIVE Q&As

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QUESTION 1

X, Y and Z are three positive prime integers. What is the value of Y?

(1)

The product XYZ is divisible by 4.

(2)

X is an odd number.

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

The question alone provides little information. Notice that it does not say that X, Y and Z are different.

Statement (1) tells us that XYZ is divisible by 4 and therefore two of the prime numbers are 2, meaning that

only one of the prime numbers are odd.

Statement (2) completes statement (1) by adding that X is odd and therefore Y and Z must be equal to 2.

Both statements, taken together, are sufficient.

QUESTION 2

Ashley paid 5 dollars for 1 notebook and 1 pencil. If both prices were integers, how many pencils did Ashley buy if she paid 93 dollars for the pencils and for 15 notebooks?

A. 6.

B. 16.

C. 18.

D. 21.

E. 26.

Correct Answer: D

One notebook can cost 1, 2, 3 or 4 dollars. Subtract 15 times each price from 93, and check if what you get

is divisible by 5 minus the price of the notebook. The number could be 24, 21 or 33.

The correct answer is D.

QUESTION 3

If a is an even integer and b is an odd integer, what must the expression

be?

A. Always even

B. Always odd

C. Always a fraction

D. Could be a fraction

E. Always an integer

Correct Answer: E

Since the even number a is raised to the power of 3, it is always divisible by 8. Therefore, the whole expression must be an integer, an even or an odd one. Of course, the expression cannot be a fraction.

QUESTION 4

The average age of Eric and George is 10 years smaller than the average age of Martha and Bella. If Martha is six years older than Eric, how much older is Bella from George?

A. 2.

B. 8.

C. 10.

D. 12.

E. 14.

Correct Answer: E

Write the equation: (Eric + George)/2 -10 = (Bella + Martha)/2 Eric+George+20=Bella+Martha, The girls are 20 years older than the boys, if one is older only by 6 than the other one has to be older by 14.

QUESTION 5

The instructions state that Cheryl needs 4/9 square yards of one type of material and 2/3 square yards of another type of material for a project. She buys exactly that amount. After finishing the project, however, she has 8/18 square yards left that she did not use. What is the total amount of square yards of material Cheryl used?

A. 1/12

B. 1/9

C. 2/3

D. 1 1/9

E. 2 1/9

Correct Answer: C

To solve the problem, you need to add

$\frac{4}{9}$

and

$\frac{2}{3}$

then subtract

$\frac{8}{18}$

since the amount she has not used is

$\frac{8}{18}$

, which reduces to

$\frac{4}{9}$

. If you were to add and

$\frac{4}{9}$

$\frac{2}{3}$

, and then subtract

$\frac{4}{9}$

, you would end up with

$\frac{2}{3}$

.

QUESTION 6

Given a spinner with four sections of equal size labeled A, B, C, and D, what is the

A. 9/16

B. 1/8

C. 1/4

D. 1/2

E. 15/16

Correct Answer: A

QUESTION 7

Monica planned her birthday party. She prepared 5 muffins for each of her guests and kept aside two additional muffins in case someone will want extra. After the party, it turned out that one of the guests didn\\'t come but every one of the guests that did come ate six muffins and 3 muffins remained. How many guests did Monica plan on?

A. 3.

B. 4.

C. 5.

D. 6.

E. 7.

Correct Answer: C

X is the number of guests that were suppose to show up at the party, and so Monica prepared 5X + 2 muffins. (X -1) is the number of guests that did come to the party and the total number of muffins is 6(X -1)

+ 3. The number of muffins that Monica prepared is equal to the total number of muffins and so we can compare the following expressions: 5X + 2 = 6(X -1) +3 --->;X = 5.

QUESTION 8

Bob is older than his brother, Jimmy. How old is Jimmy?

(1)

Two years ago Jimmy was one-third of bob\\'s age today.

(2)

In six years from today Bob will be three times Jimmy\\'s age today.

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

Build an equation from each statement both equations are identical. Since we need two different equations to find two unknowns, we cannot solve this question.

QUESTION 9

For every X, the action [X] is defined: [X] is the greatest integer less than or equal to X. What is the value of

[6.5]

x [2/3] + [2] x 7.2 + [8.4] – 6.6?

A.

12.6.

B.

14.4.

C.

15.8.

D.

16.2.

E.

16.4.

Correct Answer: C

[6.5] x [2/3] + [2] x 7.2 + [8.4] ?6.6 = 6 x 0 + 2 x 7.2 + 8 - 6.6 = 15.8

QUESTION 10

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 11

In the faculty of Reverse-Engineering, 226 second year students study numeric methods, 423 second year students study automatic control of airborne vehicles and 134 second year students study them both. How many students are there in the faculty if the second year students are approximately 80% of the total?

A. 515.

B. 545.

C. 618.

D. 644.

E. 666.

Correct Answer: D

Use the group formula.

Total = groupA + groupB Both + Neither.

Total = 226 + 423 -134 + 0 = 515 second year students. The second year students are 80% of the total

amount, therefore (515/80 x 100 = 643.75).

The best answer is D.

QUESTION 12

An investor receives a total combined return of 7% on his two different investments. On his $10,000 investment he receives a return of 6%. What is the return on his $20,000 investment?

A. 7.25%

B. 7.5%

C. 8%

D. 8.5%

E. 9%

Correct Answer: B

The combined return is 7% of $30,000 = $2,100. Subtract the 6% return on his $10,000 investment = $600.

$2,100-$600=$1,500. This is the return on his second investment of $20,000.

$1,500 of $20,000 is a 7.5% return.

QUESTION 13

If the radius of a cylinder is doubled and so is the height, how much bigger is the new lateral surface area (with out the bases)?

A. 8.

B. 2.

C. 6.

D. 4.

E. 10.

Correct Answer: D

The lateral surface area of a cylinder is (2 x pie x R) x (height of cylinder). The new lateral surface area is (2 x pie x 2R) x (double the height) = 4 times bigger.

QUESTION 14

What is the value of (a+b)?

(1)

a2-b2=133.

(2)

a-b=7.

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

Since a2-b2=(a+b)(a-b), 133=(a+b)7, and (a+b)=19. Both statements are needed to solve the question.

QUESTION 15

What is the sum of the digits of a two digits number?

(1)

The sum of the digits is a number, which is divisible by 4.

(2)

The two-digit number is a prime number.

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

Statement (1) is insufficient since there are plenty of double-digit numbers who fit this statement. Statement (2) is insufficient since there are plenty of double-digit prime numbers. The combination of both statements is still not sufficient. Take 31 and 71: they both fit statement (1) and (2) but each has a different sum of digits.