



GMAT-QUANTITIVE^{Q&As}

GMAT-Quantitive Practice Test

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QUESTION 1

What is the area of the rectangle with the following coordinates: (x, y) , $(10, y)$, $(10, 5)$, $(x, 5)$?

- A. 6.
- B. 8.
- C. 12.
- D. 32.
- E. It cannot be determined from the information given.

Correct Answer: E

First of all, draw the rectangle with the given coordinates. You can see that only one side of the rectangle is given and not the second, therefore there isn't enough data to answer the question.

QUESTION 2

What is the value of x ?

46. What is the value of x ?

NOTE: FIGURE NOT DRAWN TO SCALE

(1) $m\angle ACB = 30$
(2) $m\angle A + \angle B = 150$

- (1)
 $m\angle ACB = 30$
- (2)
 $m\angle A + \angle B = 150$



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.

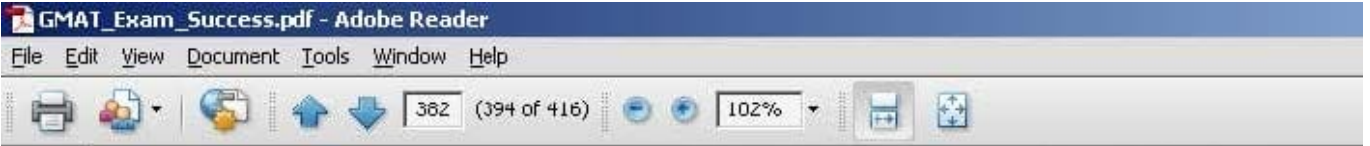
The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: D

In this problem, either statement is sufficient. Angle ACB is supplementary to x , so $180 - 30 = 150$ degrees. Statement (2) says that the sum of the two remote interior angle equal 150 degrees; this is equal to the exterior angle, x . Note that the diagram is not drawn to scale so you should not rely on the diagram to calculate the answer.

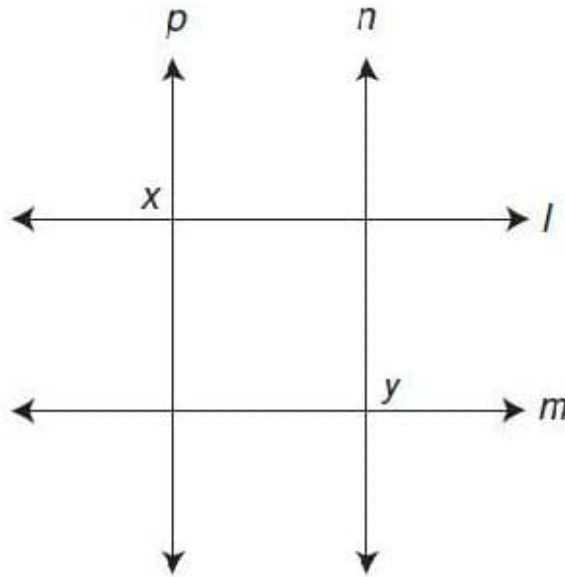
QUESTION 3

In the following figure, $p \parallel n$. Is x supplementary to y ?



QUANTITATIVE PRACTICE TEST

51. In the following figure, $p \parallel n$. Is x supplementary to y ?



- (1) $l \perp p$
- (2) $l \parallel m$

52. Which store has a greater discount, store A or store B?

- (1) Store B has 20% off all items.
- (2) Store A has \$20 off all items.

53. Is $x + 1$ a factor of 12?

- (1) $x + 1$ is even.
- (2) $x + 1$ is a factor of both 2 and 3.

(1)

$l \perp p$

(2)

$l \parallel m$

A.

Statement (1), BY ITSELF, will suffice to solve the problem, but NOT statement (2) by itself.



B.

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C.

The problem can be solved using statement (1) and statement (2) TOGETHER, but not ONLY statement (1) or statement (2).

D.

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E.

The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: B

The fact that l is perpendicular to p indicates that angle x is a right angle, but it tells you nothing about angle y . The fact that l is parallel to m in statement (2) is much more useful. Since p is parallel to n , you can use corresponding angles to figure out that y is equal to the angle adjacent to x . Therefore, x and y are supplementary.

QUESTION 4

A Cuban cigar would cost 1 dollar less than 1.5 times a French cigar, had the French cigar cost 0.7 dollar less than it does now. An Arabian cigar costs 50 cents more than 1.5 times the Cuban cigar. The three cigars together cost 74.7 dollars. What is the price of the French cigar?

A. 16.7\$.

B. 23\$.

C. 25.5\$.

D. 35\$.

E. 37.4\$.

Correct Answer: A

Sign the French cigar as X . The Cuban cigar is $1.5(X-0.7) - 1$.

The Arabian cigar is $1.5[1.5(X-0.7)-1] + 0.5$.

The sum of all the three is 74.7. The correct answer is A.

QUESTION 5

Eddy gave $Q\%$ of the money he earned last year to his first wife Sandra, $W\%$ of the money he earned last year went to his second wife Tawana. How much money did Eddy earn this year?

(1)



$Q = 20, W = 2Q.$

(2)

All the money Eddy earned last year went to his two wives.

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

From statement (1) and (2) taken together we know how much Eddy earned last year but we know Nothing about this year, we have no connections between them. Therefore, both statements are not sufficient to answer the question.

QUESTION 6

If x and y are positive integers, is $5x(1/4)y$

(1)

$$Y = 3x.$$

(2)

$$X = 2.$$

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: A

Use statement (1) to write: $5x(1/4)3x = (5/64)x$. Because x is a positive integer only, the expression will always be smaller than 1. This statement alone provides us the answer. Use statement (2) to write: $52(1/4)y$ the answer here is dependent on y , a different combinations of the variable y will give different results.

QUESTION 7

In a jar there are balls in different colors: blue, red, green and yellow.

The probability of drawing a blue ball is $1/8$.

The probability of drawing a red ball is $1/5$.

The probability of drawing a green ball is $1/10$.

If a jar cannot contain more than 50 balls, how many yellow balls are in the Jar?

A. 23.

B. 20.

C. 24.

D. 17.

E. 25.

Correct Answer: A

If $1/8$ is the probability of drawing a blue ball then there are $40/8 = 5$ blue balls in the jar. And with the same principle there are 8 red balls and 4 green ones. $40 - 5 - 8 - 4 = 23$ balls (yellow is the only color left).

QUESTION 8

The circles in the diagram are concentric circles. What is the area of the shaded region?

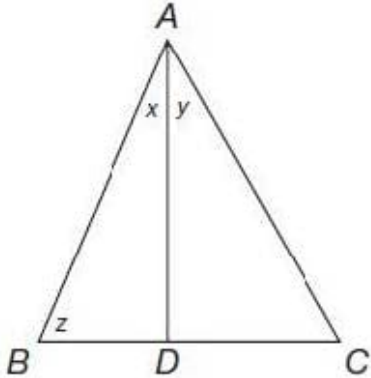


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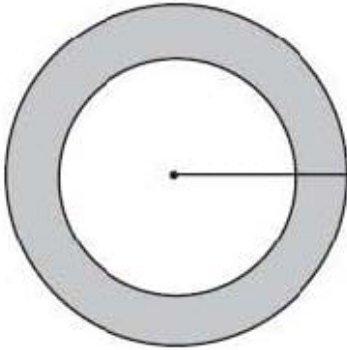
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58. Is $x + y > 2z$?



(1) $\triangle ABC$ is equilateral.
(2) $AD \perp BC$

59. The circles in the diagram are concentric circles. What is the area of the shaded region?



(1) The area of the inner circle is 25π .
(2) The diameter of the larger circle is 20.

(1)

The area of the inner circle is 25.

(2)

The diameter of the larger circle is 20.

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).

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E.

The problem CANNOT be solved using statement (1) and statement (2) TOGETHER.

Correct Answer: C

To find the area of the shaded region, you need the area of the inner circle subtracted from the

$$A = \pi r^2$$

, you need to know at least the radius of each circle. Statement (1) gives you the area of the inner circle only, but no information about the outer circle. Statement (2) tells you the diameter of the outer circle is 20, so the radius is 10. Both statements are needed to answer the question.

QUESTION 9

X, Y and Z are consecutive numbers ($X > Y > Z$). $X + 2Y + 3Z = 5Y + 4$.

What is Z?

A. 5.

B. 6.

C. 3.

D. 4.

E. 2.

Correct Answer: A

Use the answers to back solve.

$$X + 2Y + 3Z = 5Y + 4 \rightarrow X + 3Z = 3Y + 4$$

Let's try the first answer: $Z = 5$, so $Y = 6$ and $X = 6$.

Let's check the equivalence: $7 + 15 = 22 = 18 + 4$.

**QUESTION 10**

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 11

Two people measure each other's height, the height of the taller person is H and the height of the other person is L. If the differences in their height are equal to their average height, what is the Value of H/L?

- A. 1/3.
- B. 1/2.
- C. 2.
- D. 3.
- E. 6.

Correct Answer: D

If the difference is equal to the average, then we could write the equation: $H - L = (H+L)/2$. $H - 3L = 0$ $H/L = 3$.

QUESTION 12

John must arrange 3 different physics books and 3 different mathematics books on one shelf. If the first book on the leftmost side is a mathematics book and no physics book is next to another physics book. How many different arrangements exist?



- A. 6
- B. 9
- C. 36
- D. 120
- E. 720

Correct Answer: C

are the mathematics books and the even placed books are the physics books. The mission is therefore, arranging three mathematics books in three places ($3! = 6$ arrangements) and three physics books in three places ($3! = 6$ arrangements). The total number of different arrangements is

$$3! \times 3! = 6 \times 6 = 36$$

QUESTION 13

Is $x + 1$ a factor of 12?

(1)

$x + 1$ is even.

(2)

$x + 1$ is a factor of both 2 and 3.

A.

Statement (1), BY ITSELF, will suffice to solve the problem, but NOT statement (2) by itself.

B.

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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: B



Statement (1) could mean that $x + 1 = 8$, which is not a factor of 12. If $x + 1$ is a factor of both 2 and 3, then $x = 0$ and $x + 1 = 1$. One is a factor of every number. Statement (2) will suffice by itself.

QUESTION 14

The line $Y = X/2$ is drawn on a rectangular axis system. If the line is rotated, on which quadrant will he be found?

(1)

The rotation is done counter clockwise.

(2)

The line is rotated 270 degrees.

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

Draw an axis system and draw a line from the coordinate (0, 0) in the first quadrant. From (1) we can learn that the rotation is done counter clockwise which is insufficient. From (2) we can learn that the rotation is 270 degrees, but in which way? Join the statements, we know that a 270 degrees turn counter clockwise was made and therefore the line is now in the fourth quadrant.

QUESTION 15

Two adjacent angles of a parallelogram are in the ratio of 2:3. What is their average size?

A. 30.

B. 40.

C. 45.



D. 90.

E. 180.

Correct Answer: D

The ratio doesn't give us anything, two adjacent angles of a parallelogram always sum up to 180 degrees. And $180/2$ is always 90 degrees.

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