



# GMAT-QUANTITIVE<sup>Q&As</sup>

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### QUESTION 1

What is the average (arithmetic mean) of X and Y?

$-XY = 12.$

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$2X = 26 - 2Y.$

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: B

Use the average formula: the average of X and Y is  $(X+Y)/2$ . Statement (1) gives us the value of XY and not  $(X+Y)$  and is therefore insufficient. Statement (2) can be simplified to:  $2X + 2Y = 26 \rightarrow (X+Y) = 13$ . This statement is sufficient by itself.

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### QUESTION 2

The value of a "Tin-Rin" stock in the stock market decreased by 15% in the last two years.

The economic experts believe that the value of the stock will increase by 7% during the following year, which will make the value \$440. What was the approximate price of the stock two years ago?

A. \$473.

B. \$464.

C. \$455.

D. \$445.



E. \$430.

Correct Answer: A

Start from the top, after a 7% increase the price of the stock is \$440. 440 are 107% of the price this year ( $440/107 \times 100 = 411.215$ ). Two years ago the price was 15% higher, therefore ( $411.215 \times 1.15$ ) is approximately \$473.

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### QUESTION 3

What is the amount of interest paid on an X dollars loan over a 6 months period?

(1)

X = 12,000.

(2)

The interest rate is 5%.

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) gives out the amount of money loaned.

Statement (2) gives the interest with out mentioning during what time is the interest 5%. Both statements are insufficient since we cannot determine what the interest on \$12,000 is during a 6 months period. The interest could be monthly or annually or anything else.

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### QUESTION 4



Willy the wale receives sugar cubes every time he does something exquisite. How many sugar cubes did Willy get on yesterday's show?

(1)

Today, Willy performed the same show as yesterday.

(2)

Today, Willy received 11 sugar cubes.

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

The question asks about the number of cubes that Willy received on yesterday's show, which is dependent on his performance.

Statement (1) tells us that Willy did the same show but it didn't mention how did he perform, did he do the same number of exquisite acts? This statement is insufficient. Statement (2) only completes statement (1) by telling us how many cubes of sugar he received.

More sufficient data is required.

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## QUESTION 5

What is the circumference of circle O?

(1)

The circle inscribes a square.

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(2)

The perimeter of the square is 10.

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

Explanation: If a circle inscribes a square then the diagonal of the square is the diameter of the circle, which is sufficient to find the perimeter.

Statement (1) tells us about the square that is inscribed with out any further data. Statement (2) gives us the perimeter, which is equal to 4 times the side of the square. If we know the side of the square, we know its diagonal.

Both statements, taken together, are sufficient.

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## QUESTION 6

The running speed of a horse is three times faster than the jogging of a donkey.

If a horse is running for 4 hours and a donkey is jogging for 3 hours, what is the horse's speed (in Km/h) if the sum of their distances is 45 Km?

A. 15.

B. 9.

C. 3.

D. 12.



E. 8.

Correct Answer: B

X is the donkey's speed and  $3X$  is the horse's speed. The total amount of distance is Equal to 45 and to  $3X \times 4 + X \times 3 = 15X$  --->  $X = 3$ , the speed of a horse is 9.

### QUESTION 7

A rectangular swimming pool is 20 feet by 28 feet. A deck that has uniform width surrounds the pool. The total area of the pool and deck is 884 square feet. What is the width of the deck?

- A. 2 feet
- B. 2.5 feet
- C. 3 feet
- D. 4 feet
- E. 5 feet

Correct Answer: C

Since we are trying to find the width of the deck, let  $x$  = the width of the deck. Therefore,  $x + x + 20$  or  $2x + 20$  is the width of the entire figure. In the same way,  $x + x + 28$  or  $2x + 28$  is the length of the entire figure. The area of a rectangle is length  $\times$  width, so use  $A = l \times w$ . Substitute into the equation:  $884 = (2x + 20)(2x + 28)$  Multiply using FOIL:  $884 = 4x^2 + 56x + 40x + 560$  Combine like terms:  $884 = 4x^2 + 96x + 560$  Subtract 884 from both sides:  $884 - 884 = 4x^2 + 96x + 560 - 884$   $0 = 4x^2 + 96x - 324$  Divide each term by 4:  $0 = x^2 + 24x - 81$  Factor the trinomial:  $0 = (x + 27)(x - 3)$  Set each factor equal to zero and solve:  $x + 27 = 0$  or  $x - 3 = 0$   $x = -27$   $x = 3$  Since we are solving for a length, the solution of  $-27$  must be rejected. The width of the deck is 3 feet.

### QUESTION 8

Two trains are traveling on a collision course. If train A is traveling at a speed of 350 mph and train B is traveling 28% slower, how much time will it take the trains to collide if the initial distance between the two is 1505 miles?

- A. Two hours and 30 minutes.
- B. One hour and 10 minutes.
- C. Two hours and 25 minutes.
- D. Three hours and 15 minutes.
- E. Four hours and 20 minutes.

Correct Answer: A

Train B is traveling at a speed of  $0.72 \times 350 = 252$  mph. The two trains are traveling in opposite directions.

Thus, the distance should be divided by the sum of their speeds =  $252 + 350 = 602$  mph.



$1505 \text{ miles} / 602 = 2.5 = \text{two hours and 30 minutes.}$

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### QUESTION 9

What is the average number of questions that Laura can write in three days if on the first day she wrote 20 questions?

(1)

Every passing day the number of questions that Laura writes grows by 20%.

(2)

On the other two days, Laura wrote 53 questions.

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

Laura writes questions over a 3 day period.

In the first day Laura wrote 20 questions.

Statement (1) tells us that on the second day she wrote  $(1.2 \times 20 = 24)$  questions and on the third day she wrote  $(1.2 \times 24)$ . This statement is sufficient in order to calculate the average. Statement (2) is also sufficient, it gives us the sum of questions that Laura wrote in the other 2 days and therefore the average can be easily calculated.

Each statement is sufficient on its own.

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### QUESTION 10



The East-17 pre-school is upgrading all of his classrooms by buying 46 computers, 6 printers and 5 fax machines. If a computer costs 4 times more than a printer and 2 times more than the fax machine, what percent of the cost of the entire purchase was the cost of one computer, 2 printers and 1 fax machine?

- A. 1%.
- B. 2%.
- C. 3%.
- D. 4%.
- E. 5%.

Correct Answer: D

Let's define the price of a printer as  $X$ , the computer costs  $4X$  and the fax costs  $2X$ . The total price of all the merchandise is  $(46 \times 4)X + 6X + 10X = 200X$ . The specific group that was asked upon is worth  $4X + 2X + 2X = 8X$ .

The percentage of the price is  $(8/200) 4\%$ .

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#### QUESTION 11

A jar of 264 marbles is divided equally among a group of marble-players. If 2 people join the group, each one would receive 1 marble less. How many people are there in the group today?

- A. 20.
- B. 21.
- C. 22.
- D. 23.
- E. 24.

Correct Answer: C

You can back-solve it. 264 marbles divided by 22 (answer C) is 12 marbles per person. If two people join, there will be 24 people,  $264/24$  is 11, which is 1 marble less.

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#### QUESTION 12

On a summer camp, 25% of the campers paid \$120 each, 35% paid \$80 each and the rest paid \$65 each.

What percentage of the total amount paid came from the campers who paid \$80?

- A. 18%
- B. 21%





- C. 26%
- D. 33.3%
- E. 37.5%

Correct Answer: D

Take 100 campers as an example to work with, 25 paid \$120 = \$3,000 total, 35 paid \$80 = \$2,800 total, and 40 (the rest) paid \$65 = \$2,600. The total amount paid is \$8,400. The amount paid by

$$\frac{\$2,800}{\$8,400} = \frac{1}{3} = 33.3\%$$

### QUESTION 13

Brian got in his latest test a grade 3 times higher that he anticipated. In spite of that, he decided to appeal. After the appeal he got 30 points lower than the original grade but still the grade was 30 points higher than his anticipation. What was the grade Brian anticipated?

- A. 15.
- B. 20.
- C. 30.
- D. 25.
- E. 35.

Correct Answer: C

The grade Brian anticipated is x. The grade that he really got was 3x. After the appeal he got 3x - 30 that was still x + 30. Therefore x = 30.

### QUESTION 14

Is X negative?

(1)

$$X + 12$$

(2)

$$12X > 14X.$$

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) is sufficient. Subtract 12 from both sides to get X

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#### QUESTION 15

During a sale, the price of a pair of shoes is marked down 10% from the regular price. After the sale ends, the price goes back to the original price. What is the percent of increase to the nearest percent from the sale price back to the regular price for the shoes?

A. 9%

B. 10%

C. 11%

D. 15%

E. 90%

Correct Answer: C

Suppose that the shoes cost \$10.  $\$10 - 10\% = 10 - 1 = \$9$ . When the shoes are marked back up, 10% of \$9 is only 90 cents. Therefore, the markup must be greater than 10%.  $\$1/\$9 = 11 \frac{1}{9} \%$ , or about 11%.

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