

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

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**QUESTION 1**

How many days would it take two carpenters, working together, to build 5 desks?

(1)

Each carpenter can build 4 desks in two days.

(2)

Two carpenters, working together, work twice as fast as one carpenter working alone.

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

In order to solve the question, we need to know the output of one carpenter. From statement (1) we can learn that one carpenter has a certain output, and using the output formula we can calculate the desired time. Statement (2) is not useful; it tells us something that we can already assume by ourselves. Therefore the answer is A.

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**QUESTION 2**

The average height of a group of children is 125 cm. If one of the children leaves, the average height drops by 2 cm. how many kids were there originally?

(1)

The height of the child who left is twice greater than the height of the shortest child.

(2)

The height of the child who left is 130 cm.

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

Since we don't know how many children there are at all, it won't help us to know the relationship between the child who left and the shortest child.

Statement (2) defines the connection between the sum of the heights before and after the departure and using the change in the sum divided by the new number of children we can find the number of children.

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### QUESTION 3

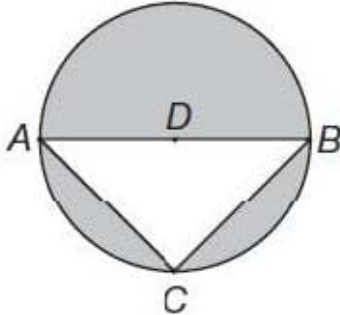
Find the area of the shaded region.

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**QUANTITATIVE PRACTICE TEST**

**76.** A fence has a square gate. What is the height of the gate?  
(1) The width of the gate is 30 inches.  
(2) The length of the diagonal brace of the gate is  $30\sqrt{2}$  inches.

**77.** Find the area of the shaded region.



(1)  $m \angle A = 43^\circ$ .  
(2)  $AB = 10$  cm.

**78.** A circle and a straight line are drawn on the same coordinate graph. In how many points do the two graphs intersect?  
(1) The equation of the circle is  $x^2 + y^2 = 25$ .  
(2) The y-intercept of the straight line is 6.

**79.** Michael left a city in a car traveling directly west. Katie left the same city two hours later, traveling east at the same rate as Michael. How long after Katie left will they be 250 miles apart?  
(1) An hour and a half after Katie left they are 250 miles apart.  
(2) Michael's destination is 150 miles farther than Katie's.

(1)  
 $m \angle A = 43^\circ$ .

(2)  
 $AB = 10$  cm.

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: E

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#### QUESTION 4

A credit card number has 6 digits (between 1 to 9). The first two digits are 12 in that order, the third digit is bigger than 6, the fourth one can be equally divided by 3 and the fifth digit is 3 times bigger than the sixth one. How many credit cards can be made?

A. 27.

B. 36.

C. 72.

D. 112.

E. 422.

Correct Answer: B

First digit is 1, the second is 2, the third can be (7,8,9), the fourth can be (0,3,6,9), the fifth and the sixth are dependent with one another. The fifth one is 3 times bigger than the sixth one, therefore there are only 3 options there: (1,3), (2,6), (3,9).

All together there are:  $1 \times 1 \times 3 \times 4 \times 3 = 36$  options.

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#### QUESTION 5

A is even and B is odd. Which of the following expressions can't be an integer?

A. The numerator is odd and the denominator is even therefore it can't be an integer.

Correct Answer: A

In this question we are looking for an expression: odd/even, which can't be an integer. In answer

A: The numerator is odd and the denominator is even therefore it can't be an integer.

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