



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

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### QUESTION 1

Did the owner of the garage sale made more than \$130 last Saturday?

(1)

There were 15 products at the garage sale, each one cost \$25.

(2)

All the products were sold.

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

Statement (1) tells us how many products were in the sale and how much did each cost. Statement (2) tells us that all the products were sold, therefore the owner made  $15 \times \$25 = \$375$ .

Both statements are required to answer the question.

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### QUESTION 2

How many patients can a group of dermatologists diagnose in one day?

(1)

Two dermatologists can diagnose 3 patients in 1.5 hours.

(2)

Dermatologists work for 8 hours a day.



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

Both statements are not sufficient, you don't know what the size of the group of dermatologists is; it can be 3 doctors or even 45. Therefore more sufficient data is required.

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### QUESTION 3

The telephone company wants to add an area code composed of 2 letters to every phone number. In order to do so, the company chose a special sign language containing 124 different signs. If the company used 122 of the signs fully and two remained unused, how many additional area codes can be created if the company uses all 124 signs?

A. 246

B. 248

C. 492

D. 15,128

E. 30,256

Correct Answer: C

Explanation: The phone company already created  $122 \times 122$  area codes, now it can create  $124 \times 124$ .  $124 \times 124 - 122 \times 122 = (124+122)(124-122) = 246 \times 2 = 492$  additional codes.

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### QUESTION 4

What is the distance that Cynthia has to travel in order to get from the university to the dorms?

(1)



Cynthia can walk half the distance in 7 minutes when walking at her fastest possible rate.

(2)

Cynthia is walking at an average speed of 1 mile in 12 minutes.

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 it only gives the time period of reaching the half point at the maximum speed.

Statement (2) is also insufficient by itself since we are only told the average speed. Both statements, taken together, are insufficient since the average speed, mentioned in (2) might be different than Cynthia's fastest possible rate.

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#### QUESTION 5

If  $3x + 1 = 81$ , then  $x - 1 =$  A. 2

B. 3

C. 4

D. 9

E. 27

Correct Answer: A

Solve for  $x$  first. Since  $3x+1 = 81$ , and 81 is 34, make an easier equation just based on the exponents. This would be  $x + 1 = 4$ .  $x = 3$ . Therefore,  $x - 1 = 3 - 1 = 2$ .