

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

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**QUESTION 1**

If the sum of six numbers is between 135 and 164, then the average (arithmetic mean) of the six numbers could be which of the following?

- A. 15.4.
- B. 20.5.
- C. 25.5.
- D. 31.25.
- E. 32.5.

Correct Answer: C

Define X as the sum of all the six numbers, 135

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**QUESTION 2**

What is the circumference of circle O?

(1)

The circle inscribes a square.

(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 3

A car travels a distance of 160 miles in 2 hours and 40 minutes, what is the speed of the car in miles per hour?

- A. 54
- B. 60
- C. 84
- D. 116
- E. 120

Correct Answer: B

The car travels 160 miles in 160 minutes that is 1 mile per minute. So, it travels 60 miles in 60 minutes, or 60 miles per hour.

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### QUESTION 4

If A,B and C are roots of the equation  $X^3 - 16X^2 + 48X$ , what is the sum of the roots?

- A. 16.
- B. 14.
- C. 17.
- D. 18.5.
- E. 22.5.

Correct Answer: A

The equation can be written as:  $X(X^2 - 16X + 48) = X(X - 12)(X - 4)$ . The roots of the equation are: 0, 4 and 12. The sum of the roots is 16.

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**QUESTION 5**

Richard is now 14.5 years older than Arthur and half of that amount older than Sam. If in 2.75 years, Richard will be twice and a half older than Arthur, then in 7 years what would be Arthur's age approximately?

- A. 8
- B. 14
- C. 22
- D. 24
- E. 30

Correct Answer: B

Translate piece by piece into numbers.  $R$  (Richard) =  $A$  (Arthur) + 14.5.

The second equation:  $R = S$  (Sam) + 7.25.

The third equation:  $R + 2.75 = 2.5(A + 2.75)$ . We have three equations with three variables. Today Arthur's age is approximately 6.9 (take 7). In 7 years he would be about 14 years old.

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