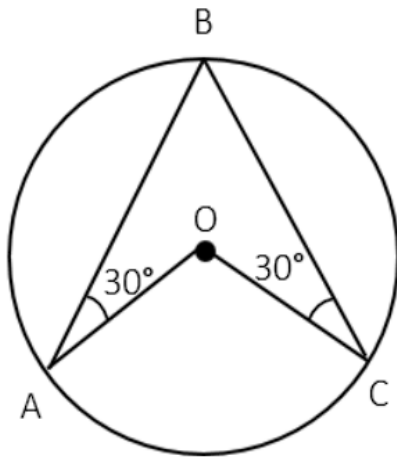


GMAT Quant Practice Test

Q1. In a parallelogram, the ratio of the two adjacent sides is 1:2. If the area of the parallelogram is $362\sqrt{2}$ square unit and the angle between the two sides is 45° , what is the area, in square unit, of the rectangle whose smaller side is equal to the smaller side of the parallelogram and the larger side is equal to the larger side of the parallelogram?

- A 36
- B $36\sqrt{2}$
- C 72
- D 96
- E 144

Q2. In the given figure, O is the centre of the circle of radius 1 unit. What is the area, in square units, of the minor sector AOC?



- A $\pi/6$
- B $\pi/3$
- C $\pi/2$
- D $2\pi/3$
- E π

Q3. The mean and the median of seven distinct positive integers is 30. If the seven integers are such that their product is maximum, what is the product of the smallest and the largest integers?

- A 111
- B 180
- C 210
- D 891
- E 900

Q4. If $(x^3 + y^6)$ is positive, which of the following must be true?

A x is positive

B y is positive

C x^3 is negative

D $(x + y^2)$ and $(x^2 + y^4 - xy^2)$ are either both positive or both negative

E $|x^3| < y^6$

Q5. A teacher distributed pens, pencils, and erasers among the students of his class, such that all students got an equal number of pens, an equal number of pencils, and an equal number of erasers. If no pens, pencils, or erasers remained with the teacher, how many students were in the class?

(1) Each student got pens, pencils, and erasers in the ratio 3:4:5, respectively.

(2) The teacher distributed a total of 27 pens, 36 pencils, and 45 erasers.

A Statement (1) ALONE is sufficient, but statement (2) ALONE is not sufficient to answer the question asked.

B Statement (2) ALONE is sufficient, but statement (1) ALONE is not sufficient to answer the question asked.

C BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.

D EACH statement ALONE is sufficient to answer the question asked.

E Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Q6. If neither x nor y is equal to 0, is $3x - 2y = 0$?

(1) $27x^3 - 8y^3 = 0$

(2) $9x^2 - 4y^2 = 0$

A Statement (1) ALONE is sufficient, but statement (2) ALONE is not sufficient to answer the question asked.

B Statement (2) ALONE is sufficient, but statement (1) ALONE is not sufficient to answer the question asked.

C BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.

D EACH statement ALONE is sufficient to answer the question asked.

E Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Q7. Did David solve more questions than Steve in a 2-hour test?

(1) Thrice the number of questions that David solved in the test was greater than 6 less than thrice the number of questions that Steve solved in the test.

(2) Twice the number of questions that David solved in the test was greater than 4 less than twice the number of questions that Steve solved in the test.

A Statement (1) ALONE is sufficient, but statement (2) ALONE is not sufficient to answer the question asked.

B Statement (2) ALONE is sufficient, but statement (1) ALONE is not sufficient to answer the question asked.

C BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.

D EACH statement ALONE is sufficient to answer the question asked.

E Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.

Q8. Each of the 25 books on bookshelf X is thinner than each of the 25 books on bookshelf Y. Is the median thickness of the 50 books less than 20-millimeters?

(1) The thinnest book on bookshelf X is 2 millimeters thick.

(2) The thinnest book on bookshelf Y is 20 millimeters thick.

A Statement (1) ALONE is sufficient, but statement (2) ALONE is not sufficient to answer the question asked.

B Statement (2) ALONE is sufficient, but statement (1) ALONE is not sufficient to answer the question asked.

C BOTH statements (1) and (2) TOGETHER are sufficient to answer the question asked, but NEITHER statement ALONE is sufficient to answer the question asked.

D EACH statement ALONE is sufficient to answer the question asked.

E Statements (1) and (2) TOGETHER are NOT sufficient to answer the question asked, and additional data specific to the problem are needed.