NEW PS & DS QUESTIONS

GMAT OG 2020

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PS

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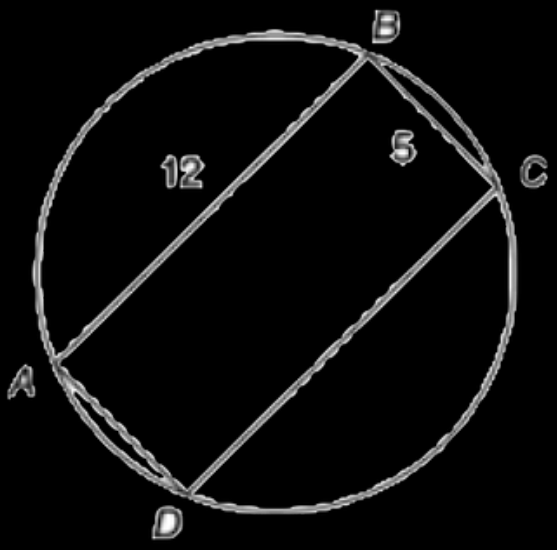
OG 2020 - PS - Q96



If rectangle ABCD is inscribed in the circle above, what is the area of the circular region?

(A) 36.00 π
(B) 42.25 π
(C) 64.00 π
(D) 84.50 π
(E) 169.00 π

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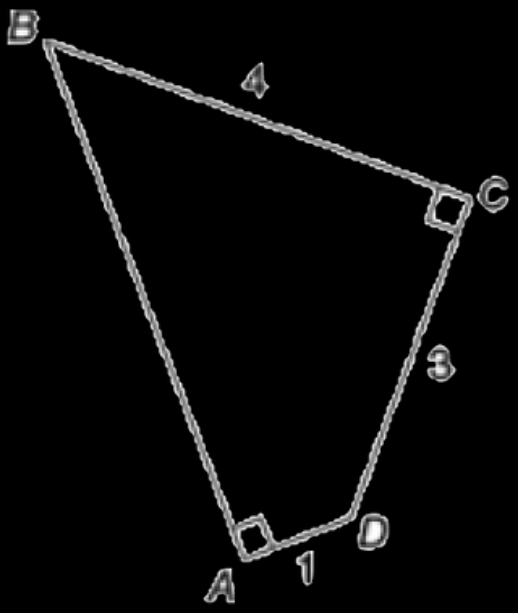
OG 2020 - PS - Q97



In quadrilateral ABCD above, what is the length of AB?

(A) $\sqrt{2}$
(B) $2\sqrt{5}$
(C) $2\sqrt{6}$
(D) $3\sqrt{2}$
(E) $3\sqrt{3}$

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OG 2020 - PS - Q98

Three-fourths of the area of a rectangular lawn 30 feet wide by 40 feet long is to be enclosed by a rectangular fence. If the enclosure has full width and reduced length rather than full length and reduced width, how much less fence will be needed?

(A) 2½
(B) 5
(C) 10
(D) 15
(E) 20

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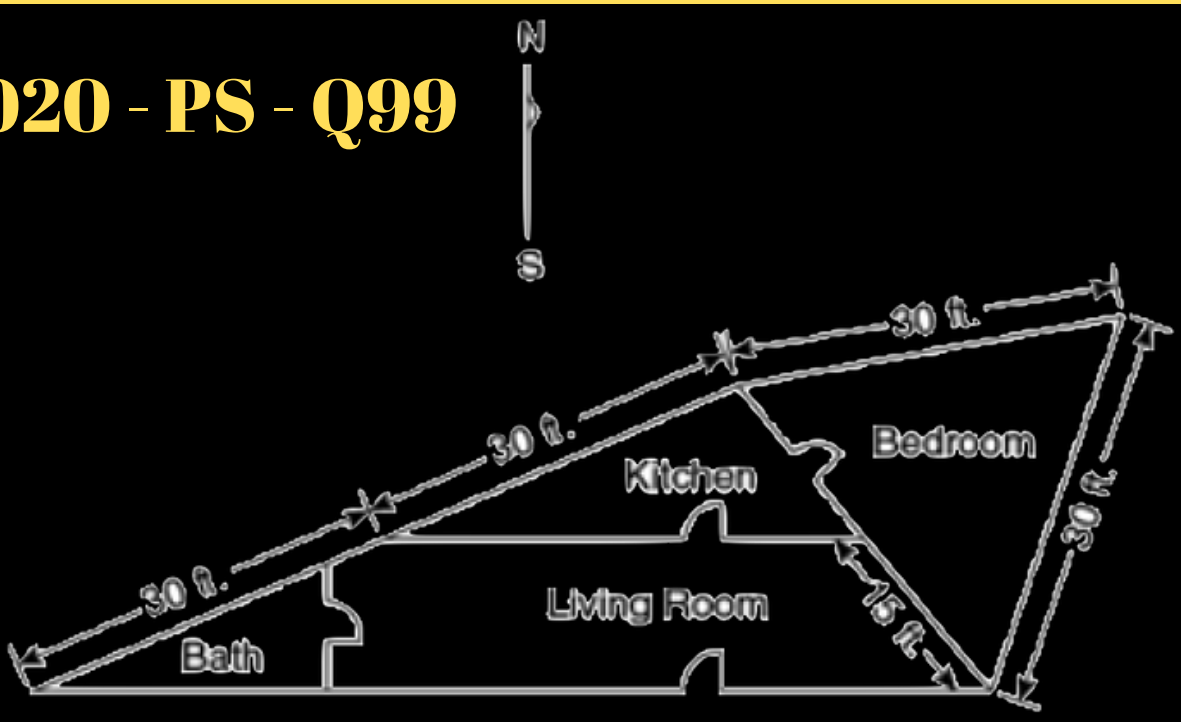
OG 2020 - PS - Q99



In the floor plan of an executive's beach house above, the north and south walls of the living room are parallel. What is the floor area, in square feet, of the bedroom?

(A) $450\sqrt{3}$
(B) 450
(C) $225\sqrt{3}$
(D) 225
(E) It cannot be determined from the information given.

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OG 2020 - PS - Q100

On a scale drawing, a rectangle 1 inch by 1⅓ inches represents the floorof a room and the indicated scale is 1 inch equals 15 feet. How many square tiles 6 inches on a side will be needed to cover this floor? (1 foot = 12 inches)

(A) 40
(B) 70
(C) 120
(D) 700
(E) 1,200

DS

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OG 2020 - DS - Q288

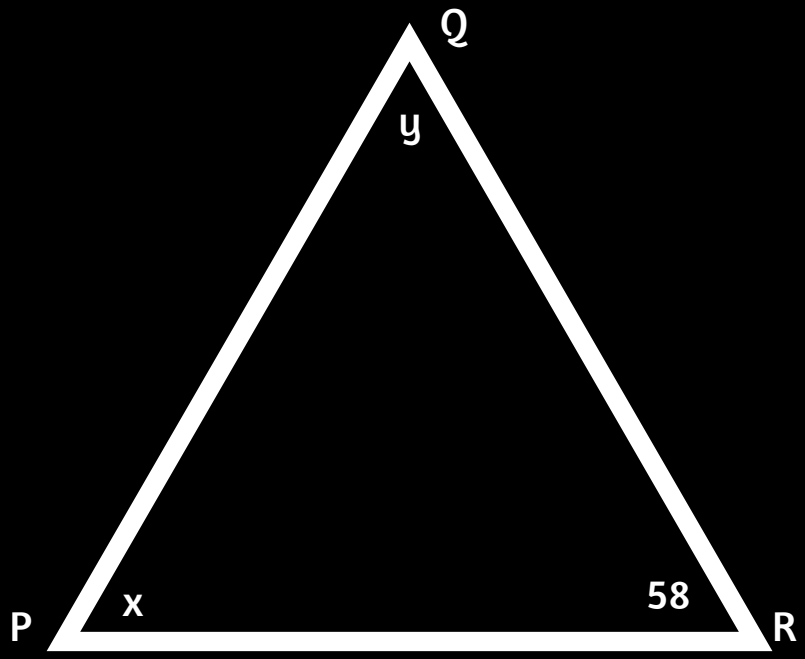
If r and s are positive integers, is r + s even?

(1) r is even.
(2) s is even.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q289



In the figure above, traingle PQR has angle measures as shown, is x < y?

(1) PQ = QR
(2) PR > QR

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q290

If S is a set of odd integers and 3 and -1 are in S, is -15 in S?

(1) 5 is in S.
(2) Whenever two numbers are in S, their product is in S.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q291

Is the integer x a 3-digit integer?

(1) x is the square of an integer.
(2) 90 < x < 150

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q292

If the 1st term of a sequence is 0 and the 2nd term is 1, is the 5th term 2?

(1) Each odd-numbered term is either 0 or 2.
(2) The 3rd term is 2.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q293

Is the sum of four particular integers even?

(1) Two of the integers are odd and two are even.
(2) The average (arithmetic mean) of the four integers is an integers.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q294

If a school district paid a total of $35 per desk for x desks and a total of $30 per table for y tablets, what was the total amount that the district paid for these desks and tables?

(1) The total amount the district paid for the y tablets was $900.
(2) x = 90, and the total amount the district paid for the desks was 3.5 times the total amount the district paid for the y tablets.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q295

Three children inherited a total of X dollars. If the oldest child inherited $7,000 more than the youngest child, and the youngest child inherited $9,000 less than the middle child, what is the value of X?

(1) The middle child inherited $27,000.
(2) The youngest child and the middle child together inherited a total of $45,000.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q296

If xyz is not equal to 0, what is the value of $x^4 z^2 / z^2 y^2$?

(1) $y^2 = x^4$
(2) x = 2 and y = 4

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q297

If a and b are integers, and b > 0, does a - (1/b) + 1 = a/b ?

(1) a = b – 4
(2) a = -b

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q298

In a sequence of numbers in which each term is 2 more than the preceding term, what is the fourth term?

(1) The last term is 90.
(2) The first term is 2.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q299

Is the integer p divisible by 5?

(1) p is divisible by 10.
(2) p is not divisible by 15.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q300

The 9 squares above are to be filled with x's and o's, with only one symbol in each square. How many of the squares will contain an x?

(1) More than 1/2 of the number of squares will contain an o.
(2) Each of the 4 corner squares will contain an x.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q301

Is the sum of two integers divisible by 10?

(1) One of the integers is even.
(2) One of the integers is a multiple of 5.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q302

Is x an integer?

(1) $x^3 = 8$
(2) $x = \sqrt{4}$

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q303

If a building has 6,000 square meters of floor space, how many offices are in the building?

(1) Exactly ¼ of the floor space is not used for offices.
(2) There are exactly 20 executive offices and each of these occupies 3 times as much floor space as the average for all the remaining offices.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q304

If p, r and s are consecutive integers in ascending order and x is the average (arithmetic mean) of the three integers, what is the value of x?

(1) Twice x is equal to the sum of p, r and s.
(2) The sum of p, r, and s is zero.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q305

If m and n are integers, what is the value of m + n?

(1) $(x + m)(x + n) = x^2 + 5x + mn$ and $x \neq 0$.
(2) $mn = 4$

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

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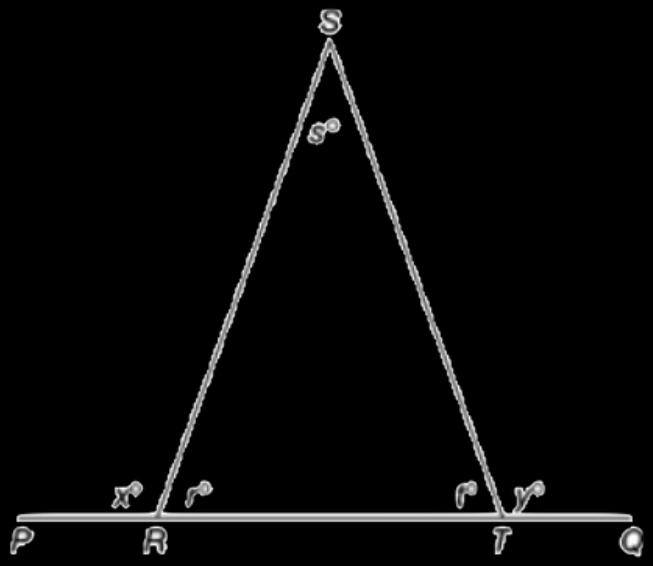
OG 2020 - DS - Q306



In the figure above, RST is a triangle with angle measures as shown an PRTQ is a line segment. What is the value of x + y?

(1) s = 40
(2) r = 70

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q307

If R, S, and T are points on a line, and if R is 5 meters from T and 2 meters from S, how far is S from T?

(1) R is between S and T.
(2) S is to the left of R, and T is to the right of R.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q308

Is n equal to zero?

(1) The product of n and some nonzero number is 0.
(2) The sum of n and 0 is 0.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q309

On a map, 1/2 inch represents 100 miles. According to this map, how many miles is City X from City Y?

(1) City X is 3 inches from City Y on the map.
(2) Cities X and Y are each 300 miles from City Z.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q310

What is the remainder when the positive integer n is divided by 5?

(1) When n is divided by 3, the quotient is 4 and the remainder is 1.
(2) When n is divided by 4, the remainder is 1.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q311

If r and s are positive numbers and @ is one of the operations, +, -, x, or ÷, which operation is @?

(1) If r = s, then r @ qs = 0.
(2) If r≠ s, then r @ qs ≠ s @ qr.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q312

In any sequence of n nonzero numbers, a pair of consecutive terms with opposite signs represents a sign change. For example, the sequence -2, 3, -4, 5 has three sign changes. Does the sequence of nonzero numbers $s_1, s_2, s_3, \ldots, s_n$ have an even number of sign changes?

(1) $s_k = (-1)^k$ for all positive integers k from 1 to n.
(2) n is odd.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q313

Jack picked 76 apples. Of these, he sold 4y apples to Juanita and 3t apples to Sylvia. If he kept the remaining apples, how many apples did he keep? (t and y are positive integers.)

(1) $y \geqslant 15$ and $t = 2$
(2) $y = 17$

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q314

What number is 6 more than x + y?

(1) y is 3 less than x.
(2) y is twice x.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q315

The total price of 5 pounds of regular coffee and 3 pounds of decaffeinated coffee was $21.50. What was the price of the 5 pounds of regular coffee?

(1) If the price of the 5 pounds of regular coffee had been reduced 10 percent and the price of 3 pounds of decaffeinated coffee had been reduced by 20 percent, the total price would have been $18.45.
(2) The price of the 5 pounds of regular coffee was $3.50 more than the price of the 3 pounds of decaffeinated coffee.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q316

If a and b are integers, is $a^5 < 4^b$?

(1) $a^3 = -27$
(2) $b^2 = 16$

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q317

If each side of parallelogram P has length 1, what is the area of P?

(1) One angle of P measures 45 degrees.
(2) The altitude of P is $\sqrt{2}/2$.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q318

If x is an integer greater than 0, what is the remainder when x is divided by 4?

(1) The remainder is 3 when x+1 is divided by 4.
(2) The remainder is 0 when 2x is divided by 4.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q318

If x is an integer greater than 0, what is the remainder when x is divided by 4?

(1) The remainder is 3 when x+1 is divided by 4.
(2) The remainder is 0 when 2x is divided by 4.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q319

A certain painting job requires a mixture of yellow, green, and white paint. If 12 quarts of paint are needed for the job, how many quarts of green paint are needed?

(1) The ration of the amount of green paint to the amount of yellow and white paint combined needs to be 1 to 3.
(2) The ratio of the amount of yellow paint to the amount of green paint needs to be 3 to 2.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q320

Is the average (arithmetic mean) of the numbers x,y, and z greater than z?

(1) $z - x < y - z$
(2) $x < z < y$

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q321

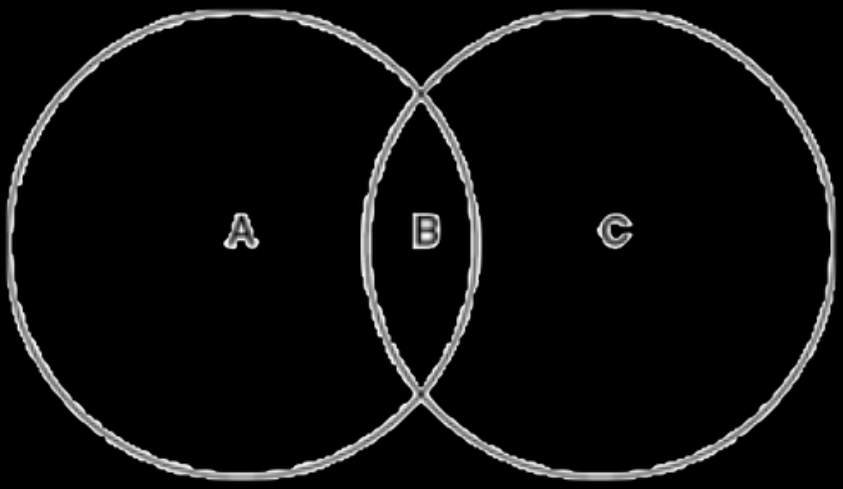
Is the point Q on the circle with center C?

(1) R is a point on the circle and the distance from Q to R is equal is equal to the distance from Q to C.
(2) S is a point on the circle and the distance from Q to S is equal to the distance from S to C.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q322



In the figure above, if A, B, and C are the areas, respectively, of the three nonoverlapping regions formed by the intersection of two circles of equal area, what is the value of B+C?

(1) A + 2B + C = 24
(2) A + C = 18 and B = 3

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q323

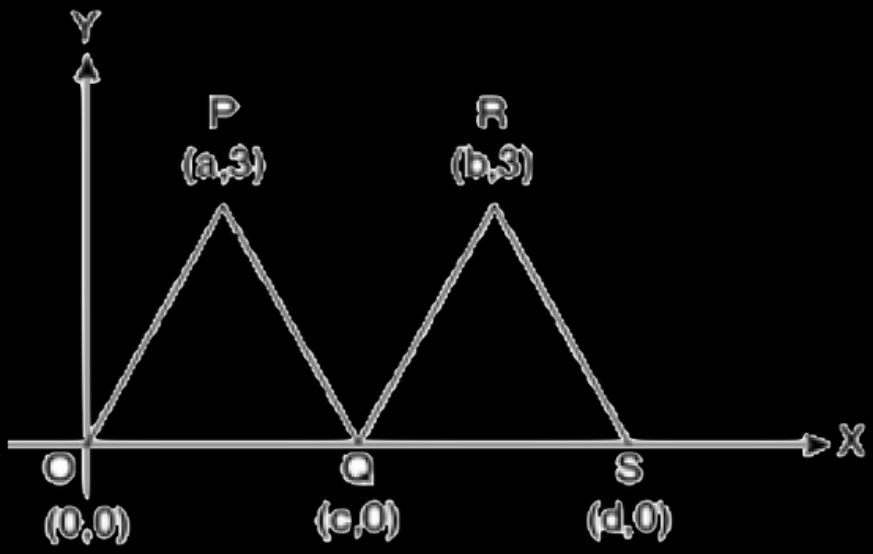
A company produces a certain toy in only 2 sizes, small or large, and in only 2 colors, red or green. If, for each size, there are equal numbers of red and green toys in a certain production of lot, what fraction of the total number of green toys is large?

(1) In the production lot, 400 of the small toys are green.
(2) In the production lot, 2/3 of the toys produced are small.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q325



In the figure above, the vertices of triangle OPQ and triangle QRS have coordinates as indicated. Do triangle OPQ and triangle QRS have equal areas?

(1) b = 2a
(2) d = 2c
(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q326

After the first two terms in a sequence of numbers, each term in the sequence is formed by adding all of the preceding terms. Is 12 the fifth term in the sequence?

(1) The sum of the first 3 terms in the sequence is 6.
(2) The fourth term in the sequence is 6.

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WIZIUS CAREERS

OG 2020 - DS - Q327

Jones has worked at Firm X twice as many years as Green, and Green has worked at Firm X four years longer than Smith. How many years has Green worked at Firm X?

(1) Jones has worked at Firm X 9 years longer than Smith.
(2) Green has worked at Firm X 5 years less than Jones.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
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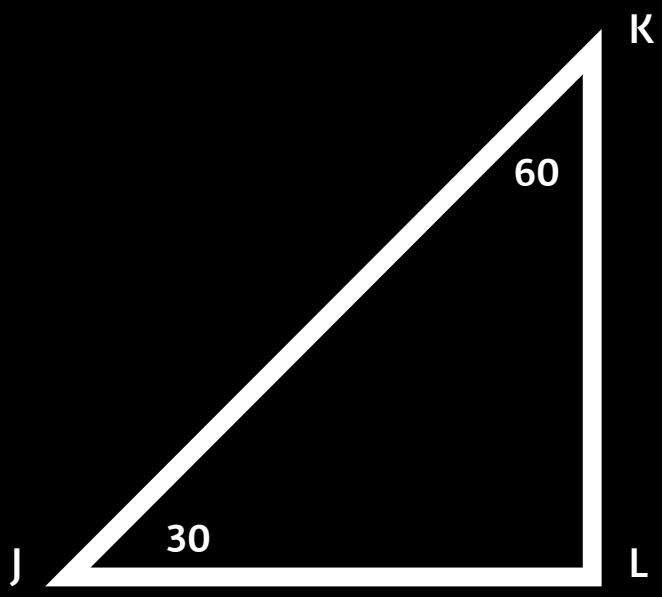
WIZIUS CAREERS

OG 2020 - DS - Q328



In triangle JKL shown above, what is the length of segment JL?

(1) JK = 10
(2) KL = 5

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
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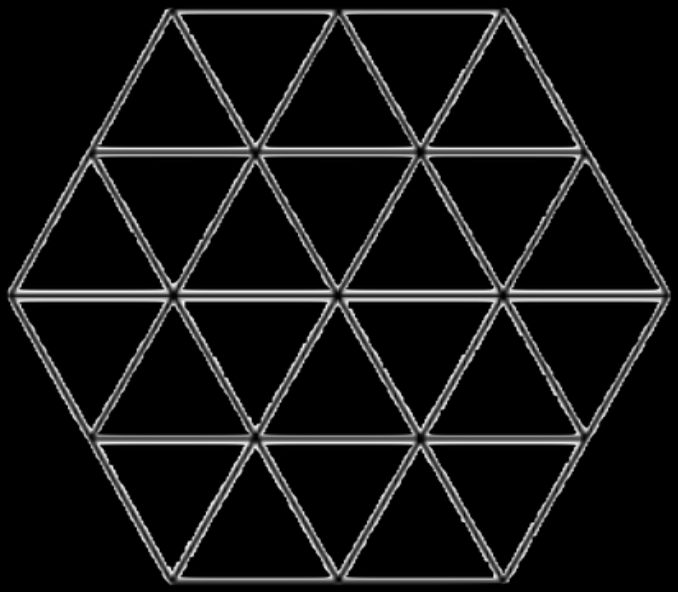
WIZIUS CAREERS

OG 2020 - DS - Q329



A six-sided mosaic contains 24 triangular pieces of tile of the same size and shape, as shown in the figure above. If the sections of the tile fit together perfectly, how many square centimeters of tile are in the mosaic?

(1) Each side of each triangular piece of tile is 9 centimeters long.
(2) The mosaic can be put inside a rectangular frame that is 40 centimeters wide.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
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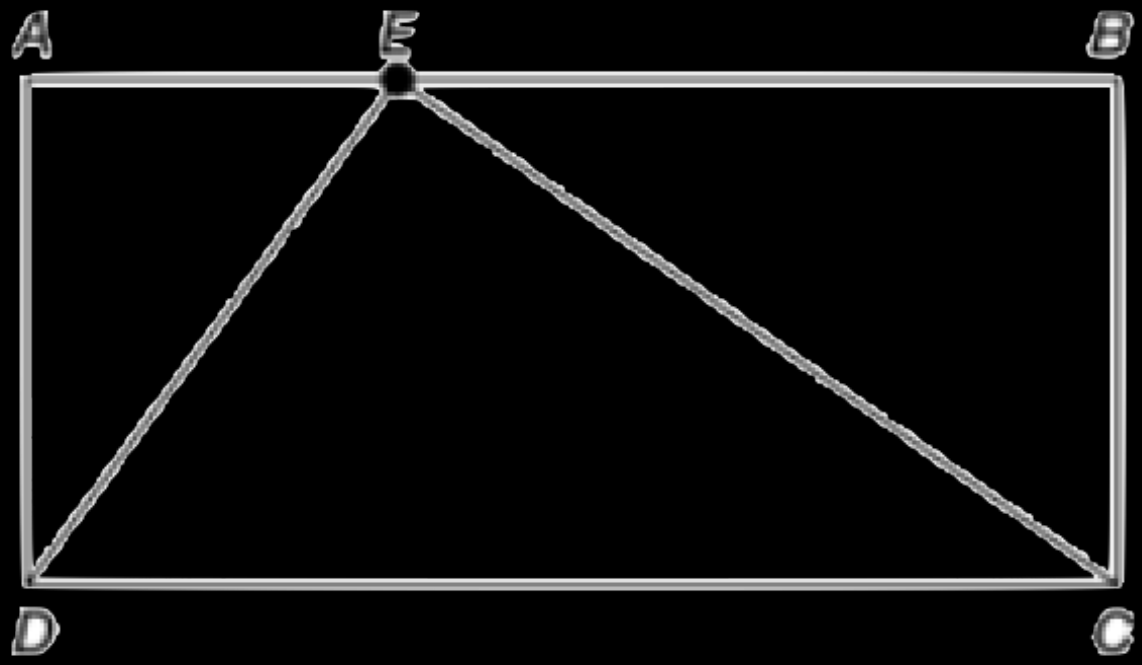
WIZIUS CAREERS

OG 2020 - DS - Q330



If, in the figure above, ABCD is a rectangular region, what is the value of the ration area of DEDA/ area of DEBC?

(1) AD = 4
(2) AE = 2 and EB = 4

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q331

A noncompressible ball in the shape of a sphere is to be passed through a square opening in a board. What is the perimeter of the opening?

(1) The radius of the ball is equal to 2 inches.
(2) The square opening is the smallest square opening through which the ball will fit.

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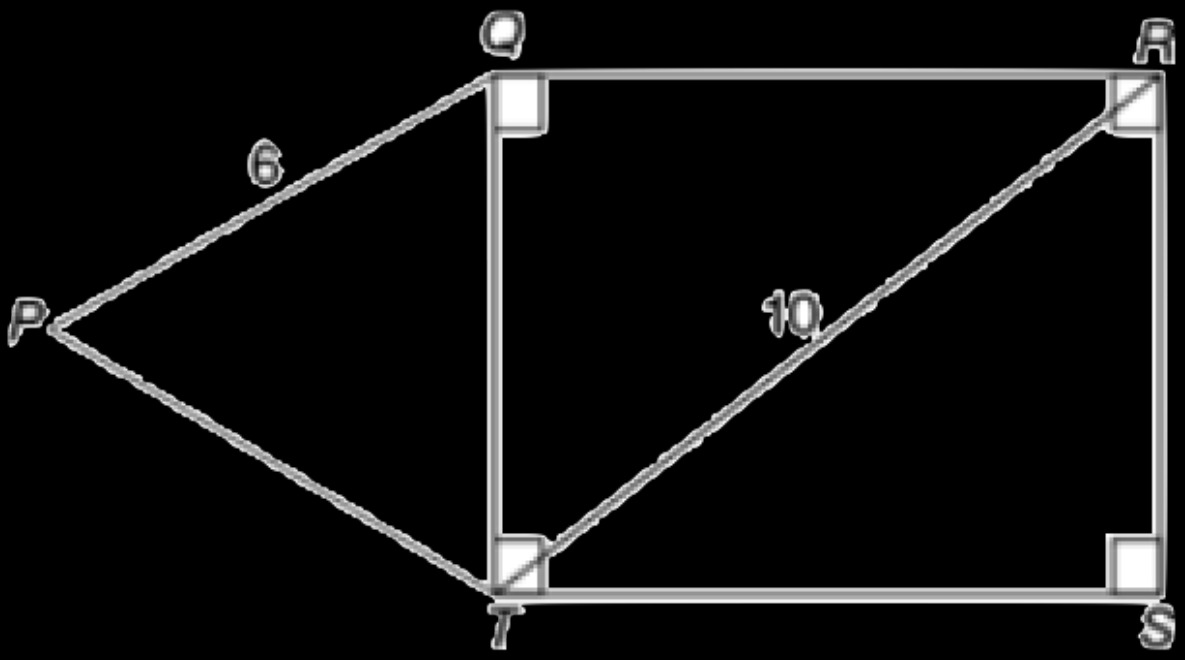
WIZIUS CAREERS

OG 2020 - DS - Q332



A noncompressible ball in the shape of a sphere is to be passed through a square opening in a board. What is the perimeter of the opening?

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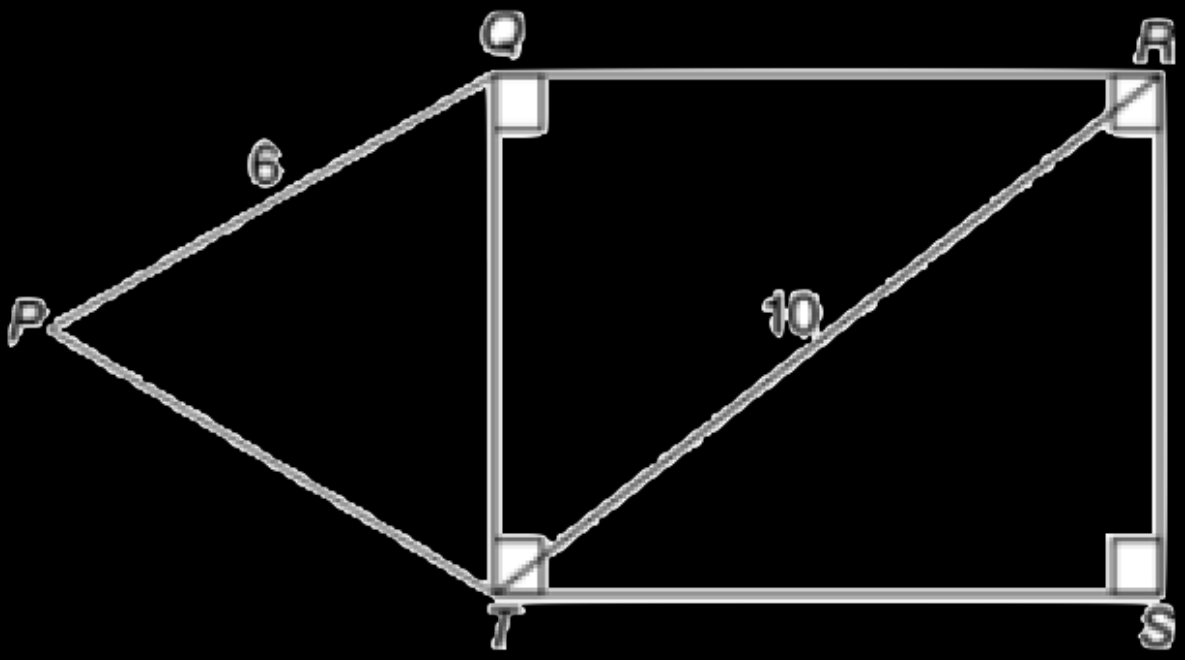
WIZIUS CAREERS

OG 2020 - DS - Q333



The figure above represents a box that has the shape of a cube. What is the volume of the box?

(1) PR = 10 cm
(2) QT = $5\sqrt{6}$ cm

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q334

If x and y are the lengths of the legs of a right triangle, what is the value of xy?

(1) The hypotenuse of the triangle is $10\sqrt{2}$.
(2) The area of the triangular region is 50.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
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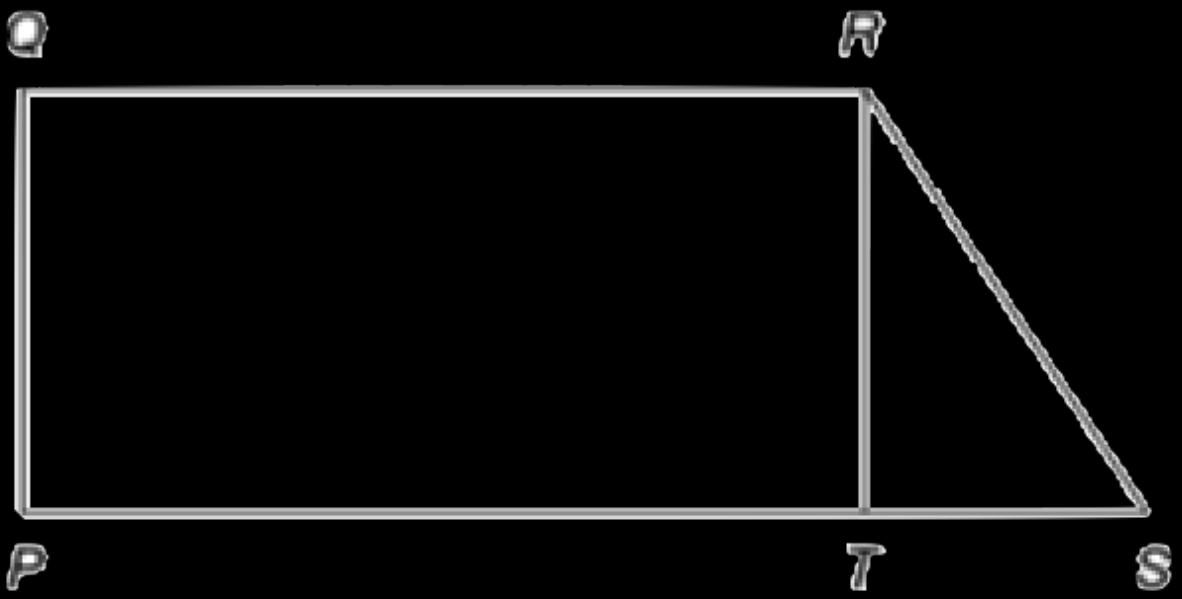
WIZIUS CAREERS

OG 2020 - DS - Q335



In the figure above, PQRT is a rectangle. What is the length of segment PQ?

(1) The area of region PQRS is 39 and TS = 6.
(2) The area of region PQRT is 30 and QR = 10.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q346

A paint mixture was formed by mixing exactly 3 colors of paint. By volume, the mixture was x% blue paint, y% green paint, and z% red paint. If exactly 1 gallon of blue paint and 3 gallons of red paint were used, how many gallons of green paint were used?

(1) x = y
(2) z = 60

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q353

If a and b are constants, is the expression $(x + a)/\sqrt{(x + a)}$ defined for x = -2?

(1) a = 5
(2) b = 6

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q363

Three roommates- Bela, Gyorgy, and Janos- together saved money for a trip. The amount that Bela saved was equal to 8% of his monthly income. The amount that Gyogy saved was exactly ⅓of the total amount saved by all 3 roommates. What was the total amount saved for the trip by all 3 roommates?

(1) Bela had a monthly income of $2,000.
(2) Janos saved 1.5 times as much for the trip as Bela.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
(E) Statements (1) and (2) TOGETHER are NOT sufficient

WIZIUS CAREERS

OG 2020 - DS - Q369

A pentagon with 5 sides of equal length and 5 interior angles of equal measure is inscribed in a circle. Is the perimeter of the pentagon greater than 26 centimeters?

(1) The area of the circle is 16π square centimeters.
(2) The length of each diagonal of the pentagon is less than 8 centimeters.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q370

If 2.00X and 3.00Y are 2 numbers in decimal form with thousandths digits X and Y, is 3(2.00X) > 2(3.00Y)?

(1) 3X < 2Y
(2) X < Y – 3

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q371

The length, width, and height of a rectangular box, in centimeters, are L, W, and H. If the volume of this box is V cubic centimeters what is the value of ?

(1) At least one of the integers is negative.
(2) At least one of the integers is positive.u

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q373

Is x = y?

(1) (2x/3) - (y/3) = (1/3)
(2) (x/4) - (y/4) = 0

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
(C) Both statements TOGETHER are sufficient, but NEITHER statement ALONE is sufficient
(D) EACH statement ALONE is sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q376

A rectangular solid has length, width and height of L cm, W cm and H cm, respectively. If these dimensions are increased by x%, y%, and z%, respectively, what is the percentage increase in the total surface area of the solid?

(1) L, W, and H are in the ratios of 5:3:4.
(2) X = 5, y = 10, z = 20.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q377

A certain list, L, contains a total of n numbers, not necessarily distinct, that are arranged in increasing order. If L1 is the list consisting the first n1 numbers in L and L2 is the list consisting of the last n2 numbers in L, is 17 a mode for L?

(1) 17 is a mode for L1and 17 is a mode for L2.
(2) n1+ n2= n

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q381

If a merchant purchased a sofa from a manufacturer for $400 and then sold it, what was the selling price of the sofa?

(1) The selling price of the sofa was greater than 140 percent of the purchase price.
(2) The merchant's gross profit from the purchase and sale of the sofa was of the selling price.

(A) Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient
(B) Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient
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WIZIUS CAREERS

OG 2020 - DS - Q384

7, 9, 6, 4, 5, x

If x is a number in the list above, what is the medina of the list?

(1) x > 7
(2) The median of the list equals the arithmetic mean of the list.

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