Question 1:

The area of a triangle is equal to the area of the rectangle. Find the perimeter of the rectangle.

1. The perimeter of the square is 24 inches.

2. The sum of the length and the width is 13 inches.

(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.

(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.

Correct Answer:

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

▶ View Solution

Question 2:

A particle moving in air increases its speed within 30 minutes. Find its acceleration.

1. Its initial velocity is 20 miles per hour and its final velocity is 25 miles per hour.

2. The particle increases its speed by 5 miles per hour.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 3:

Are the two lines L1 and L2 parallel?

1. Both lines lie in the first, second and fourth quadrants.

2. The y intercepts of the lines L1 and L2 are 8 and 4 respectively.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 4:

s, p and q are interior angles of an Isosceles triangle. Find the value of q.

1. s = 72°.

2. p and q are base angles of the triangle.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 5:

Is A an obtuse angle?

1. A is more than 90°.

2. A is a supplement of an angle B, an acute triangle.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 6:

Determine the value of angle k.

1. Angle k and m lies on a straight line.

2. Angle m = 39°.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 7:

A straight line L passes through (2,8) and the origin. Find the equation of a line perpendicular to L.

1. The line passes through the origin.

2. The line passes through (2,-0.5).

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 8:

Two pipes supply waters to a cistern whose capacity of 15 cubic feet. How long does it take the two pipes to fill the cistern?

1. The first pipe supplies water at a rate (per minute) that is thrice faster than the second pipe.

2. The pipes fill 8 cubic feet of the tank in ten minute.

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 9:

Is 2x + 1 $>$ 0.

1. x is an integer

2. $|x| < 1.5$

(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 ask.

(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.

Correct Answer:

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

▶ View Solution

Question 10:

Two numbers 12 and t are two positive numbers with some similar properties. What is the value of t.

1. The Least Common Multiple of the two numbers is 48.

2. The Greatest Common multiple of the two numbers is 4.

(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 ask.

(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.

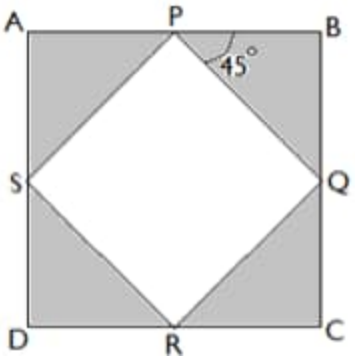
Correct Answer:

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

▶ View Solution

Question 11:

A square PQRS is enclosed in another square ABCD. Find the ratio of the area of PQRS to the area of ABCD.



(A) 1/2

(B) 1/4

(C) 1/3

(D) 2/3

(E) 1/$\sqrt{2}$

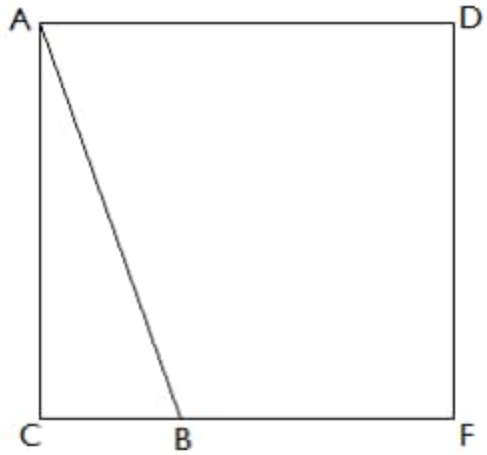
Correct Answer:

(A) 1/2

▶ View Solution

Question 12:

What is the ratio of the area of triangle ABC to the area of square ADFC if CB=(CF)/4?



(A) 1/4

(B) 1/8

(C) 1/16

(D) 2/5

(E) 3/8

Correct Answer:

(B) 1/8

▶ View Solution

Question 13:

If the product of two integers x and y is less than 82 with y being a multiple of three. What is the highest value that x may have?

(A) 13

(B) 42

(C) 27

(D) 30

(E) 34

Correct Answer:

(C) 27

▶ View Solution

Question 14:

Adam is 2 years older than Mike. The square of Adam's age is 28 greater than the square of Mike's age in years. What is the sum of Adam's age and Mike's age?

(A) 8

(B) 12

(C) 14

(D) 18

(E) 22

Correct Answer:

(C) 14

▶ View Solution

Question 15:

Adam has bought a certain number of apples. Jen has bought 5 times the fruit that Adam has bought. If Jen has bought two and a half dozen apples how many apples does Adam have?

(A) 6 apples

(B) 8 apples

(C) 12 apples

(D) 24 apples

(E) 30 apples

Correct Answer:

(A) 6 apples

▶ View Solution

Question 16:

What would be the circumference of a circle that has been inscribed in a square of area 5.

(A) 3π

(B) 5π

(C) $\sqrt{5}\pi$

(D) $\pi + 3/2$

(E) $\sqrt{5}/2\pi$

Correct Answer:

(C) $\sqrt{5}\pi$

▶ View Solution

Question 17:

What could be the possible value of 'y' after the intersection of points $y= -x^2 + 3$ and $y= x^2 - 5$

(A) $\sqrt{2}$

(B) 3/2

(C) 4

(D) $\sqrt{8}$

(E) -1

Correct Answer:

(E) -1

▶ View Solution

Question 18:

A house is built by 20 workers in 30 days. How many workers will be needed to complete the work in 15 days?

(A) 20

(B) 34

(C) 40

(D) 45

(E) 52

Correct Answer:

(C) 40

▶ View Solution

Question 19:

Master Chef Alan makes a dish every day from one of his recipe books. He has written 3 books and each book contains 15 different recipes. What is the probability that he will cook 4th dish from 3rd book today?

(A) 1/15

(B) 3/45

(C) 3/13

(D) 1/45

(E) 1/3

Correct Answer:

(D) 1/45

▶ View Solution

Question 20:

In a Christmas sale, the prices of Dell Laptops were reduced by 10% for public. However, for Dell employees, the price was further reduced by 5%. If the original price of a laptop was
(330 before Christmas sale, approximately how much would it cost in a Christmas sale to a Dell employee?

(A)
)271

(B)
(277

(C)
)282

(D)
(287

(E)
)295

Correct Answer:

(C)
(282

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