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Data Sufficiency Questions for IBPS PO Pre, RRB Scale I Pre, SBI PO Pre, Canara Bank PO, RBI Grade B, Syndicate Bank PO, IBPS SO Pre, IBPS Clerk Mains and SBI Clerk Mains Exams.

Data Sufficiency Quiz 11

Directions: Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and give answer:

1. Two friends A and B together can complete a piece of work in 10 days. In how many days A alone complete the piece of work?

    Statement I : B alone can complete half of the work in 12.5 days.
    Statement II : The efficiency of A is 50% more than that of B.

    A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
    B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
    C. Either Statement I or Statement II alone is sufficient to answer the question.
    D. Neither statement I nor statement II is sufficient to answer the questions.
    E. The data in both the statements I and II together is necessary to answer the question.

2. When length of a rectangle was increased by 20% and breadth remains constant then area was increased by 100 sq. cm. What is the perimeter of the rectangle?

    Statement I : After increasing the length, the rectangle becomes a square.
    Statement II : After increasing the length, all the angles of the rectangle becomes 90 degree.

    A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
    B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
    C. Either Statement I or Statement II alone is sufficient to answer the question.
    D. Neither statement I nor statement II is sufficient to answer the questions.
    E. The data in both the statements I and II together is necessary to answer the question.

3. One day I left my home at 7 : 00 AM and assumed that if I run at uniform speed then I will reach my school at 12 : 00 AM. If my brother left the school for home at 8 : 00 AM with his uniform speed then at what time will he meet me?

Statement I : The uniform speed of my brother is 14 km per hour.
Statement II : He can reach home at 11:30 AM.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

4. 5 years ago, Ram was 5 times as old as me. At present, what is the age of Ram?

Statement I : 2 years ago, Ram got married and at present, the average age of Ram and his wife is 52 years.
Statement II : 5 years hence, Ram will be 2 times as old as his wife.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

5. Is x an even number?

Statement I: $8x + 5y$ is an even number.

Statement II: $3x + 6y$ is an even number.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

6. A boy riding a bicycle at a uniform speed, complete a round of a square park in 30 seconds. What is the area of the park?

Statement I: The uniform speed of the boy is 20 meters per second
Statement II: One side of the park is 150 meters.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

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7. The length of the train how much percentage less than that of the platform of length x meters?

Statement I: The train cross the x meters long platform in 30 seconds.
Statement II: The train cross a signal pole in 15 seconds.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

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8. In the bus, how many of the passengers are females?

Statement I: When 20 males get down on the next stop then the number of female passengers become equal to that of male passengers.
Statement II: In the bus, 33.33% of the seats are reserved for female passengers

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. The data in both the statements I and II is not sufficient to answer the question.
E. The data in both the statements I and II together is necessary to answer the question.

9. At what price should Sonu sell an article if he wants to earn 10% profit on the selling price?

Statement I: The cost price of the article is Rs. 500.

Statement II: The ratio of cost price to selling price of the article is 9 : 10.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. The data in both the statements I and II is not sufficient to answer the question.
E. The data in both the statements I and II together is necessary to answer the question.

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10. Among three numbers, A, B, and C which is the greatest number?

Statement I: Half of A is equal to one – fourth of B and the value of C is 1 more than that of B.

Statement II: One – third of B is equal to half of A and the value of C is 2 more than that of A.

A. The data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
B. The data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
C. Either Statement I or Statement II alone is sufficient to answer the question.
D. Neither statement I nor statement II is sufficient to answer the questions.
E. The data in both the statements I and II together is necessary to answer the question.

Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	A	B	E	B	C	E	D	A	A

Explanations:

1. From the statement I, we can conclude the number of days A alone will take to complete the work.

From the statement II, efficiency is given so it is easy to find the number of days, A alone or B alone will take to complete the work.

Therefore, either Statement I or Statement II alone is sufficient to answer the question.

Hence, option C is correct.

2. Let the length = x and breadth = y

When length was increased by 20% then the new length = 1.2x

From the statement I, we can conclude that 1.2x = y (because it changes to square)

$$\frac{x}{y} = \frac{1}{1.2} = \frac{5}{6}$$

Let us assume that x = 5a then y = 6a

Original area = $5 \times 6 \times a^2$

New area = $5 \times 5 \times 1.2a^2$

From here we can conclude the value of a = 3 cm

Once we get the value of a, we can conclude the length and breadth and can get perimeter

From the Statement II, we could not conclude either new figure becomes rectangle or square because even in rectangle all angles are 90 degree.

Therefore, the data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

Hence, option A is correct.

3. The time taken by me = 12 − 7 = 5 hours

From the statement I, speed of my brother = 14 km per hour

From the statement II, the time taken by my brother = 11: 30 − 8 : 00 = 3 : 30 hours

From the question and statement II, we can conclude the ratio of time = 5 : 3:30 = 10 : 7

Now we know that, speed = inversely proportional to time

So, the ratio of speed = 7 : 10

Let the distance between by house and the school is 70 km

Then my speed = $\dfrac{70}{7}$ = 10 km per hour

And my brother speed = $\dfrac{70}{10}$ = 7 km per hour

Now, we can conclude the time at which I will meet my brother but from the statement II, we could not conclude distance or any ratio.

Therefore, the data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

Hence, option B is correct.

4. In the statement I, the average is given of Ram and His wife

Let At present, Ram's age = x and his wife age = y then

x + y = 52 years

From the statement II, 5 year hence, x + 5 = 2(y + 5)

x − 2y = 5

By combining both the statement, we can conclude the value of 3x = 109

x = 109/3 years = present age of Ram

Therefore, the data in both the statements I and II together is necessary to answer the question

Hence, option E is correct.

5.   **Statement I:** 8x + 5y is an even number.

8x is always even whether x is odd or even.

Now for 8x + 5y to be an even number, 5y also has to be even

So for 5y to be even y has to be even.

From Statement I we cannot conclude whether x is even or odd.

Statement II: 3x + 6y is an even number.

6y is always even whether y is even or odd.

Now for 3x + 6y to be an even number, 3x also has to be even

So for 3x to be even x has to be even.

From Statement II we can conclude that x is even

Therefore, the data in statements II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.

Hence, option B is correct.

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6.   From the statement I, we can conclude the perimeter of the square park then side = perimeter/4 now we can conclude the area of the park.

In the statement II, side of the park is given and the park is square shape then we can find the area of the park.

Therefore, either Statement I or Statement II alone is sufficient to answer the question.

Hence, option C is correct.

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7.   From the statement I, let the length of the train = y meters and the speed = s meters per sec then

(y + x) = s × 30 .... (i)

From the statement II, 15 × s = y .... (ii)

If we solve both the equation, then x = y

If means, the length of the train is 0% more than that of the platform.

Therefore, the data in both the statements I and II together is necessary to answer the question Hence, option E is correct.

8. From the statement I, we can conclude that the number of male passengers was 20 more than that of female passengers

From the statement II, we could not conclude anything because if seats are reserved it does not mean all the female passengers are sitting. Some might be standing also.

Therefore, the data in both the statements I and II is not sufficient to answer the question.

Hence, option D is correct.

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9. From the statement I, CP = 500

Let SP = 100X then 10% profit on SP = 10X = Profit

The cost price = SP – Profit = 100x – 10x = 90x = 500

From here, we can calculate to value of x then after we can get the SP.

From the statement II, only ratio is given therefore, statement II alone is not sufficient to answer the question.

Therefore, the data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question

Hence, option A is correct.

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10. From the statement I, A : B = 1 : 2

Here, B is greater and the value of C is 1 more than that of B therefore, for any value of B, C will be the greatest

From the statement II, 3A = 2B

A : B = 2 : 3

Here we could not conclude that C will be greatest or smallest for all value of B

Because, when A = 4, B will be greatest but for A = 2, C will be greatest.

Therefore, the data in statements I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.

Hence, option A is correct.