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

Data Sufficiency Quiz 9

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. How much amount Rina will get at the end of two years if the rate of interest is compounded annually?

Statement I : Rohan invests the same of amount of money under simple interest at the rate of 10% per annum and receives a total amount of Rs.1560 at the end of 3 years.

Statement II : The difference between the simple interest and compound interest on the same sum of money at the same rate of interest at the end of 2 years is Rs 12.

- 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.

2. How much time train P will take to cover a distance of 532 km?

Statement I : The ratio of speed at which train P and train Q runs is 4 : 5 respectively

Statement II : The average speed of the train P and train Q is 400/9 km per hour?

- 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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3. What will be the sum of two numbers?

Statement I : The smaller number is 14 less than the average of two numbers.

Statement II : The ratio between half of the bigger number to one third of the average of the numbers is 17 : 9.

- 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.

4. The population of a city in the year 2018 was 219615 then what was the population of city exactly 4 years ago?

Statement I : The population of city in the year 2018 is exactly 1.4641 times of that in the year 2014.

Statement II : The population of the city increased by 10% each year.

- 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.

5. In a triangle ABC, which of the sides among AB, BC, and CA is the longest side?

Statement I : The ratio of angle A to angle B is 3 : 2 that is the same as the ratio of angle B to angle C.

Statement II : The perimeter of the triangle is 144 cm.

- 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.

6. At present, the age of Ram and Shayam is in the ratio of 5 : 6 respectively. What is the age of Ram?

Statement I : At present, the respective ratio of the age of the age of Shayam and Mohan is 3 : 4.

Statement II : 5 years hence, the ratio of the age of Ram and Mohan will become 2 : 3.

- 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.

7. C alone can complete a work in 15 days, then in how many days A, B and C together will complete the work if they start simultaneously?

Statement I : If A and B start simultaneously then they together can complete the work in 5.625 days.

Statement II : B and C start simultaneously then they together can complete the work in 9 days.

- 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.

8. At 10% per annum a sum of money under compound interest becomes Rs. 1331. What is the time duration?

Statement I : At 15% per annum at the end of 2 years, the same sum of money under compound interest compounded annually becomes Rs. 1600.225.

Statement II : At 5% per annum simple interest then same sum of money becomes Rs. 1452 at the end of 4 years.

- 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. Is 'A' is an odd number?

Statement I: When A is multiplied with a number then the product is an even number.

Statement II: When 'A' is added with the product of two odd numbers then the number thus obtained 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. 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.

10. Ram invests some money in two schemes. What is the amount invested by him in the scheme B?

Statement I: The ratio of the amount invested in the scheme A and that in the scheme B is 5 : 4.

Statement II: The amount invested by him in the scheme A is Rs. 5000 more than that of the scheme 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. 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.

Correct Answers:

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

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Explanations:

1. From the statement I, we can conclude the sum of money Rina had invested but nowhere it is mentioned the rate of interest Rina had invested her money. Therefore we cannot reach the answer by the statement alone.

From the statement II, Difference between CI and SI is Rs.12 at the end of 2 years. But as the principal is not given here, we can't deduce the rate of interest using statement II alone.

But, from the statement I, we concluded the sum of money and to this statement we can conclude the rate of interest.

Therefore, if we combine statement I and statement II then we can conclude that the rate of interest was 10% per annum and the sum of money was Rs. 1200 now we can calculate the amount Rina will receive at the end of 2 years

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

Hence, option E is correct.

2. In the question, the distance is given

In the statement I, the ratio of speed is given .

From the statement I we can conclude that P's speed : Q's speed = 4 : 5 but we cannot find out speed of individual trains

In statement II the average speed of both the trains is given so we cannot find out speed of individual trains.

If we combine statement I with statement II, then we can get as P's speed = 40 km per hr Q's speed = 50 km per hr

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

Hence, option E is correct.

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3. Let the smaller number = a and bigger number = b

Then from the statement I,

$$a = \frac{a + b}{2} - 14$$

$$2a = a + b - 28$$

$$a - b = -28$$

$$b - a = 28 \text{ ----- (i)}$$

from the statement II, $b/2 : (a + b)/6 = 17 : 9$

$$\frac{\frac{b}{2}}{\frac{a + b}{6}} = \frac{17}{9}$$

$$\frac{3b}{a + b} = \frac{17}{9}$$

$$27b = 17a + 17b$$

$$17a - 10b = 0 \text{ ---- (ii)}$$

If we combine both the statement then we get two equation, after solving that we can get a = 40 and b = 68

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

Hence, option E is correct.

4. Let the population of the city 4 years ago i.e. in the year 2014 = x

Then, from the statement I, $1.4641 \times x = 219615$

$$x = 150000$$

From the statement II,

If it was increased by 10% each year then,

$$x \times \frac{110}{100} \times \frac{110}{100} \times \frac{110}{100} \times \frac{110}{100} = 219615$$

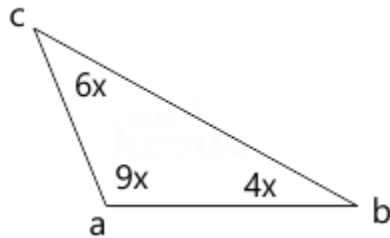
From here, we can get the value of x = 150000

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

Hence, option C is correct.

5. From the statement I, we can conclude the ratio of the angle $a : b : c = 9 : 6 : 4$

We know that in a triangle the side opposite to the bigger angle is largest



From here we can conclude that the side BC will be the largest

From the statement II, only perimeter is given but, in the question, we need to find the largest side therefore, nothing can be concluded by this statement alone

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.

6. $R : S = 5 : 6$

From the statement I: $R : S : M = 2.5 : 3 : 4$

From the statement II, 5 years hence, $R : M = 2 : 3$

If we combine both the statement then we will get R's present age = 25 years

Shyam's present age = 30 years and Mohan's present age = 40 years

Hence, option E is correct.

7. From the statement I, we can conclude that A, B, and C together can complete the work in $45/11$ days

From the statement II, we can only conclude that B can complete the work alone in 22.5 days

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.

8. From the statement I, we can conclude principle = Rs. 1210

Now putting this value in the question, we can conclude time = 1 year

From the statement II, we can conclude Principle = 1210

Now putting this value in the question, we can conclude time = 1 year

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

Hence, option C is correct.

9. From the statement I, we could not conclude our answer because $\text{even} \times \text{even} = \text{even}$ and $\text{even} \times \text{odd} = \text{odd}$.

From the statement II, we can conclude our answer because

$\text{even} + \text{odd} \times \text{odd} = \text{odd}$

But $\text{odd} + \text{odd} \times \text{odd} = \text{even}$

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.

10. From the statement I, $A : B = 5 : 4$

From the statement II, it is given that the amount invested by him in the scheme A is Rs. 5000 more than that of the scheme B

So by combining we get,

Amount invested in scheme A = Rs. 25000

Amount invested in scheme B = Rs. 20000

Therefore, by combining both the statements we can conclude our answer.

Hence, option E is correct.

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