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Data Sufficiency Questions for SBI PO Pre, IBPS PO Pre, SBI Clerk Mains and IBPS Clerk Mains Exams

Data Sufficiency Quiz 5

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. What is the area of a right-angled triangle ABC, right angled at A?

Statement I: The circum radius of the triangle is 6 cm.

Statement II: Angle ABC = 60 degrees

- 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. After 5 years, what will the sum of the age of Moni and Soni?

Statement I: 5 years before, Moni was 5 years older than Soni.

Statement II: At present, the ratio of their ages is 5 : 6.

- 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.

3. Two trains, running in the opposite direction cross each other in 18 sec. What is the difference between their lengths?

Statement I: The difference between their speeds is 12 m/sec

Statement II: The sum of their speeds is 36 meters per second.

- 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. What is the value of three digits number, the unit digit of which is 3 and divisible by 7?

Statement I: The three digits number is divisible by 9.

Statement II: The three-digit number is divisible by 21.

- 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 school, 60% of the girls aged 14 and above play football then how many of girls play football?

Statement I: In the school, there are no girls below 14 years who play football.

Statement II: In the school, girls comprise 60% of the total number of students who play football.

- 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 A to B is in the ratio of 7 : 9. B is how many years older than A?

Statement I: 5 years before, the ratio of the age of A to C was 4 : 5.

Statement II: After 5 years, the ratio of the age of A to D will become 6 : 7.

- 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. Is x greater than y ?

Statement I: $1/x$ is greater than 1.

Statement II: $1/x$ is less than $1/y$.

- 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. What is the area of a triangle ABC of base 12 cm?

Statement I: The height of the triangle is 8 cm.

Statement II: The triangle is an isosceles.

- 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. What is the marked price of an article?

Statement I: The selling price after giving 25% discount on the marked price is Rs. 600.

Statement II: If the article was sold on the marked price then the profit earned on the cost price would be either 60% or Rs. 300.

- 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. What is the speed (in metres per hour) of motorboat in still water?

Statement I: The motorboat covers 100 km downstream in 10 hours.

Statement II: The motorboat covers 60 km in still water in 10 hours.

- 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	D	A	D	D	E	A	C	B

Explanations:

1. If circum radius in the statement 1 is given then hypotenuse will be double of the circum radius.

From the statement II, one angle is 60 degrees then other will be 30 degrees. Here we know all the angles and by combining with the statement I, we can conclude one side that is hypotenuse

By using $\sin 60 = \text{height}/\text{hypotenuse}$ we can conclude the other side then after we can easily conclude the area of the triangle.

Hence, option E is correct.

2. 5 years before, let the age of moni = x then the age of soni = $x - 5$

At present, their age will be, Moni = $x + 5$ years, Soni = $x - 5 + 5 = x$ years

In the statement II, the ratio of $x + 5$ and x are given therefore, by combining both the statement, we can conclude our answer.

Hence, option E is correct

3. If we combine both the statement, then we can conclude their speed as 24 m/sec and 12 m/sec

Now we can conclude the sum of their length but the difference of their lengths is not possible to get.

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

Hence, option D is correct.

4. From the question, the unit digit of the three-digit number is 3, and it is divisible by 7.

From the statement I, the number is divisible by 9

LCM of 9 and 7 = 63

The only number which is multiple of 63 and the unit digit of which is 3, is $63 \times 11 = 693$

Therefore, we can conclude our answer by this statement

From the statement II, the number is divisible by 21 therefore, LCM of 21 and 7 = 21

There are many numbers like, 273, 483 ---- which is divisible by 21 and 7, and the unit digit of which is 3

Therefore, we could not get a unique answer by this statement.

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.

5. In none of the statement or in question, it is given any information about number therefore by using only percentage, we could not conclude our answer.

Hence, option D is correct.

6. $A : B = 7 : 9$

Let us assume it $7x$ and $9x$

From the statement I: A's age = $4y = 7x - 5$

From the statement II: A's age = $6z = 7x + 5$

If we combine both the statement, we could not find three variables

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

Hence, option D is correct.

7. From the statement I, $1/x$ is greater than 1 it means x is less than 1.
We could not conclude if x is greater than or less than y

From the statement II, $1/x$ is less than $1/y$

$$\frac{1}{x} < \frac{1}{y}$$

If x and y both are positive then

This will be only possible if x is greater than y .

But, if x is negative i.e. -2 and y is positive i.e. 2 then $x < y$

$$\frac{1}{x} = -0.5 \text{ and } \frac{1}{y} = 0.5$$

Here, $\frac{1}{x}$ is also less than $\frac{1}{y}$

From the statement I, x is less than 1

Therefore, if we combined both the statement then we can conclude that x is less than y

Hence, option E is correct.

8. Area of a triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

In the statement I, height is given then we can conclude the area by the formula.

In the statement II, we only have information that the triangle is isosceles

Therefore, statement II alone is not sufficient to conclude our answer.

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.

9. From the statement I, discount percentage is given and selling price is given then we can conclude the marked price as Rs. 800

In the statement II, Let CP = Rs. $100x$ then Selling price = MP = Rs. $160x$

$$\text{Profit} = 160x - 100x = 60x = 300$$

$$x = 5$$

It means, MP = $160x$ = Rs. 800

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

Hence, option C is correct.

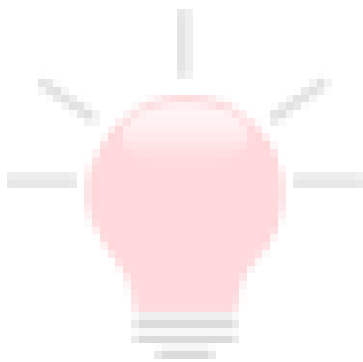
10. From the statement I alone, we can conclude downstream speed but we could not conclude the speed of motorboat in still water.

From the statement II alone, we can conclude that the speed of motorboat in still water = 6 km per hour

Now, we can change it in the term of meters per hour

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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