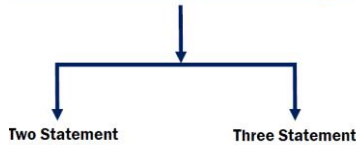


Data Sufficiency



It may be covering any of the topics as Percentage, Ratio, Average, time and work, algebra, mensuration, time and distance, S.I and C.I. etc.

Direction for two Statements

Direction: The question given below contain two statements giving certain data.

You have to decide whether the data given in the statements are sufficient for answering the question(?) Mark answer-

- (1) If statement I alone is sufficient but statement II alone is not sufficient.
- (2) If statement II alone is sufficient but statement I alone is not sufficient.
- (3) If each statement alone (either I or II) is sufficient.
- (4) If statement I and II together are not sufficient.
- (5) If both statement together are sufficient, but neither statement alone is sufficient.

Q.1. What is Amrita's monthly income?/अमृता की मासिक आय क्या है?

- I. Amrita saves 20% of her monthly income which is Rs. 100 less than Leela's saving.
अमृता अपनी आय का 20% बचाती हैं जो लीला की बचत से 100 रुपये कम हैं।
- II. Leela saves Rs.1800 which is $\frac{1}{4}$ of his monthly income Rs. 1800.
लीला 1800 रुपये बचाती है जो उसकी आय का $\frac{1}{4}$ हैं

Ans:(5) If both statement together are sufficient, but neither statement alone is sufficient.

Statement II

Leela saving = 1800

Statement I

Amrita saving = 1700

Amrita income = $1700 \times 5 = 8500$

Q.2. What is the value of the angle x in the adjoining figure where O is the centre of the circle
निम्न दिए गए चित्र में O वृत्त का केंद्र हैं, कोण x का मान क्या है?

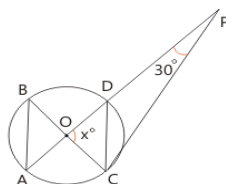
- I. The length of arc CD is $\frac{1}{8}$ th of the circumference.
चाप CD की लम्बाई परिधि की $\frac{1}{8}$ भाग हैं।

II. $\angle CPD = 30^\circ$

Ans:(1) If statement I alone is sufficient but statement II alone is not sufficient.

Statement I

$360/8 = 45$



Q.3. P and Q are solutions of water and alcohol. If solution R consists of 3 parts of P and 4 parts of Q, what percent of solution R will alcohol form? P और Q पानी और शराब का मिश्रण हैं। यदि मिश्रण R में 3 भाग P और 4 भाग R हैं, मिश्रण R का कितना भाग शराब हैं?

I. Solution P contained 15% of alcohol and solution Q contained 7% alcohol.

मिश्रण P में 15% शराब हैं और मिश्रण Q में 7% शराब हैं

II. There was a total of 10 litres of the solution R

मिश्रण R कुल 10 लीटर हैं

Ans:(1) If statement I alone is sufficient but statement II alone is not sufficient. Statement I

15 7

3 4

Q.4. How much time will Train P take to cross Train Q (from the moment they meet) running in opposite directions (towards each other)?

I: The respective ratio of speeds of Train P and Train Q is 3 : 4. The sum of the lengths of Train P and Train Q is 700 metre.

II: Train P can cross a signal pole in 12 seconds. It can cross 600 metre long station in 25 seconds.

Ans:(5) If both statement together are sufficient, but neither statement alone is sufficient.

Statement II

Speed of P = $600/(25-12)$

Statement I

Speed of Q = $(600/13) \times 4/3$

Time = $700/(600/13 + (600/13) \times 4/3)$

Q.5. What is the area the isosceles triangle A?

समद्विबाहु त्रिभुज A का क्षेत्रफल क्या है?

I: The length of the side opposite the single largest angle in the triangle is 8cm.

त्रिभुज में एकल सबसे बड़े कोण के विपरीत भुजा की लंबाई 8 सेमी है।

II: The perimeter of triangle A is 20 cm.

त्रिभुज A का परिधि 20 सेमी है।

Ans:(5) If both statement together are sufficient, but neither statement alone is sufficient.

$2a + 8 = 20$

$a = 6$

Sides = 6, 6, 8

Area = $\sqrt{10 \times 4 \times 4 \times 2}$

Q.6. There are two cylindrical rollers – bigger and smaller. How many rotations will the bigger roller take to flatten a stretch of land(X)?

I. The respective ratio of the radii of the bigger and the smaller roller is 7:3. Both the rollers are of the same length.

II. The smaller takes 63 rotations to flatten the stretch of land(X).

Ans: (5) If both statement together are sufficient, but neither statement alone is sufficient.

$\pi r^2 h n = \pi r_1^2 h_1 n_1$

$h = h_1$

Q.7. What was the total compound interest on a sum after three years?

एक धनराशि पर 3 वर्ष का कुल चक्रवृद्धि ब्याज क्या है?

I. The interest after one year was Rs. 100 and the sum was Rs. 1000.

एक वर्ष के बाद ब्याज रु 100 और राशि रु 1000 थी।

II. The difference between simple interest and compound interest on a sum of Rs. 1000 at the end of two years was Rs. 10.

1000 रु की धनराशि के साधारण ब्याज और चक्रवृद्धि ब्याज के बीच का अंतर दो वर्ष के अंत में 10 रुपये था।

Ans:(3) If each statement alone (either I or II) is sufficient.

Statement I :

$R = (100/1000) \times 100 = 10\%$

$I = 33.1\% \times 1000 = 331$

Statement II

$$10 = 1000(r/100)^2$$

$$R = 10$$

$$I = 33.1\% \times 1000 = 331$$

Q.8. Rohan and Mohan start walking towards each other simultaneously .
What is the distance between them when they start ?

- I. 30 minutes after crossing each other they were 1200 m apart.
II. After crossing each other, Rohan reaches the starting point of Mohan in twice as much time as Mohan takes to reach the starting point of Rohan

Q.9. What is the area of the circular field?

- I. The area of the largest square that can be inscribed in the given circular field is 3000 sq. cm.
II. The area of the smallest square in which the given circular field can be inscribed is 3600 sq. cm.

Ans:(3) If each statement alone(either I or II) is sufficient.

Statement I :

$$A = d^2/2$$

$$\text{Dia} = d$$

$$\text{Radius} = \text{Dia}/2$$

Statement II

$$\text{Area} = a^2$$

$$\text{Dia} = a$$

$$R = a/2$$

Q.10. '3xy5' is a four digit number then 'xy' is:

'3xy5' एक चार अंक संख्या है तो 'xy' है:

- I: xy is exactly divisible by 23
xy 23 से पूर्णता विभाजित है
II: 3xy5 is exactly divisible by 25
3xy5 25 से पूर्णता विभाजित है

Ans:(5) If both statement together are sufficient, but neither statement alone is sufficient.

Statement I

$$xy = 23, 46, 69, 92$$

$$3xy5 = 3235, 3465, 3695, 3925$$

Statement II

$$3925 \text{ is only divisible by } 25$$

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