

Quiz Date: 15th June 2020

Directions (1-10): The following questions are accompanied by two statements A and B. You have to determine which statement(s) is/are sufficient/necessary to answer the questions.

Q1. Find Veer's present age if Atul is ten year younger than Veer.

(A) Five year hence, Atul's age will be 20% more than Abhi's age while Abhi is 15 years younger than Veer.

(B) Ratio between Veer's present age to Atul present age is 7 : 5

(a) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(b) Statement B alone is sufficient to answer the question, but statement A alone is not sufficient to answer the question.

(c) Either statement A or statement B by itself is sufficient to answer the question.

(d) Statement A alone is sufficient to answer the question, but statement B alone is not sufficient to answer the questions.

(e) Statements A and B taken together are not sufficient to answer the question.

Q2. Find the speed of boat in downstream?

(A) Speed of boat in still water is 50% more than speed of boat in upstream.

(B) Difference between time taken by boat to cover 32 km in upstream to that of in downstream is 2 hours.

(a) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(b) Statement B alone is sufficient to answer the question, but statement A alone is not sufficient to answer the question.

(c) Either statement A or statement B by itself is sufficient to answer the question.

(d) Statement A alone is sufficient to answer the question, but statement B alone is not sufficient to answer the questions.

(e) Statements A and B taken together are not sufficient to answer the question.

Q3. Find the value of 'R'.

(A) Satish invested Rs. 10,000 at R% p.a. at C.I. for 2 years and Rs. 8,000 at R% p.a. at S.I. for 4 years. He got same amount from both schemes.

(B) Ratio between principal invested at R% p.a. at CI to interest earned after 2 years is 25 : 11.

(a) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(b) Statement B alone is sufficient to answer the question, but statement A alone is not sufficient to answer the question.

(c) Either statement A or statement B by itself is sufficient to answer the question.

(d) Statement A alone is sufficient to answer the question, but statement B alone is not sufficient to answer the questions.

(e) Statements **A** and **B** taken together are not sufficient to answer the question.

Q4 Find the volume of given cylinder if height of cylinder is 14 cm ?

(A) Total surface area of cylinder is 924 cm^2 .

(B) Total surface area of cylinder is 50% more than of curved surface area of cylinder.

(a) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

(b) Statement **B** alone is sufficient to answer the question, but statement **A** alone is not sufficient to answer the question.

(c) Either statement **A** or statement **B** by itself is sufficient to answer the question.

(d) Statement **A** alone is sufficient to answer the question, but statement **B** alone is not sufficient to answer the questions.

(e) Statements **A** and **B** taken together are not sufficient to answer the question.



Q5. What is the number?

A. 20% of that number is one fifth of that number.

B. $\frac{5}{6}$ th of that number is less than that number by 15.

(a) if the statement A alone is sufficient to answer the question, but the statement B alone is not sufficient.

(b) if the statement B alone is sufficient to answer the question, but the statement A alone is not sufficient.

(c) if both statements A and B together are needed to answer the question.

(d) if either the statements A alone or statement B alone is sufficient to answer the question

(e) if you cannot get the answer from the statements A and B together, but need even more data.

Q6. What is the area of the hall?

I. Material cost of flooring per sq metre is Rs. 250

II. labour cost of flooring the hall is Rs. 3,500

III. Total cost of flooring the hall is Rs. 14,500

(a) I and II only

(b) II and III only

(c) All I, II and III

(d) Any two of the three

(e) None of these

Q7. What was the percentage of discount offered?

- I. Profit earned by selling the article for Rs. 252 after giving discount was Rs. 52.
- II. Had there been no discount the profit earned would have been Rs. 80
- III. Had there been no discount the profit earned would have been 40%.

- (a) I and II only
- (b) II and either I or III only
- (c) I and III only
- (d) I and either II or III only
- (e) None of these

Q8. What is the speed of the train?

- I. The train crosses a signal pole in 13 sec.
- II. The train crosses a platform of length 250 m in 27 seconds.
- III. The train crosses another train running in the same direction in 32 seconds.

- (a) I and II only
- (b) I and III only
- (c) II and III only
- (d) Any two of the three
- (e) None of these

Q9. What is the population of State 'A'?

- I. After increasing the population of State A by 15% it becomes 1.61 lakhs
- II. Ratio of population of State A to that of State B is 7 : 8 respectively
- III. Population of State B is 1.6 lakhs

- (a) I only
- (b) II and III only
- (c) I and II only
- (d) Either only I or II and III
- (e) All I, II and III

Q10. How many workers are required for completing the construction work in 10 days?

- I. 20% of the work can be completed by 8 workers in 8 days
- II. 20 workers can complete the work in 16 days
- III. One eighth of the work can be completed by 8 workers in 5 days

- (a) I and II only
- (b) II and III only
- (c) I only
- (d) III only
- (e) Any one of three

Directions (11-15): **What will come in place of question mark (?) in the following number series?**

Q11. 6, 9, 18, 45, 135, ?

- (a) 470
- (b) 472.5

- (c) 493.75
- (d) 476.5
- (e) 439

Q12. 66, 35, 72, 38, 78, ?

- (a) 39
- (b) 158
- (c) 37
- (d) 41
- (e) 40

Q13. 29, 33, 60, 76, 201, ?

- (a) 391
- (b) 139
- (c) 237
- (d) 211
- (e) 229

Q14. 5, 7.25, 13.5, 25.75, 46, ?

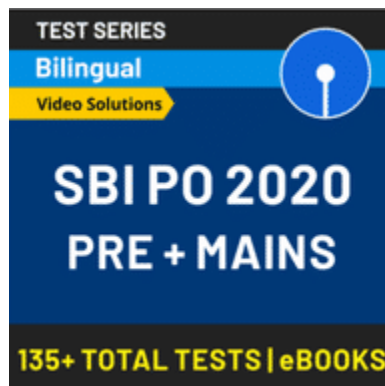
- (a) 70.25
- (b) 71.25
- (c) 73.25
- (d) 75.25
- (e) 76.25

Q15. 138, 269, 532, 1059, 2114, ?

- (a) 4405
- (b) 4025
- (c) 4252
- (d) 4225
- (e) 4325

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Solutions

S1. Ans.(c)
Sol.

Let Veer's present age = x

\Rightarrow Atul's present age = $x - 10$

From A \rightarrow

Abhi's present age = $x - 15$

ATQ,

$$(x - 5) = \frac{120}{100}(x - 10)$$

$$5x - 25 = 6x - 60$$

$$x = 35$$

So, Veer's present age = 35 years

From B \rightarrow

$$\frac{x}{x-10} = \frac{7}{5}$$

$$\Rightarrow 5x = 7x - 70$$

$$\Rightarrow x = 35$$

So, Veer's present age = 35 years.

Either statement **A** or statement **B** by itself is sufficient to answer the question.

S2. Ans.(a)

Sol.

Let speed of boat in still water = a

Speed of stream = b

From (A)

$$a = \frac{150}{100}(a - b)$$

$$\Rightarrow 100a = 150a - 150b$$

$$\Rightarrow a = 3b$$

From (B)

$$2 = \frac{32}{a-b} - \frac{32}{a+b}$$

$$\Rightarrow (a^2 - b^2) = 32b$$

From (A) and (B) together

$$9b^2 - b^2 = 32b$$

$$\Rightarrow 8b^2 = 32b$$

$$\Rightarrow 8b(b - 4) = 0$$

$$\Rightarrow b = 0, 4$$

$$\Rightarrow a = 12$$

Speed of boat in downstream = $a + b$

$$= 12 + 4$$

$$= 16 \text{ km/hr}$$

Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.

S3. Ans.(c)

Sol.

From (A)

$$8000 + \frac{8000 \times R \times 4}{100} = 10,000 \left[1 + \frac{R}{100} \right]^2$$



$$\begin{aligned}
 8000 + 320R &= 10,000 \left[1 + \frac{R^2}{100^2} + \frac{2R}{100} \right] \\
 \Rightarrow 8000 + 320R &= 10,000 + R^2 + 200R \\
 \Rightarrow R^2 - 120R + 2000 &= 0 \\
 \Rightarrow R^2 - 100R - 20R + 2000 &= 0 \\
 \Rightarrow R(R - 100) - 20(R - 100) &= 0 \\
 (R - 20)(R - 100) &= 0 \\
 R &= 20\%, 100\%
 \end{aligned}$$

From (B)

Let Principal = 25x

Interest = 11x

$$25x \left[1 + \frac{R}{100} \right]^2 = 36x$$

$$\Rightarrow R = 20\%$$

Either statement **A** or statement **B** by itself is sufficient to answer the question.

S4. Ans.(c)

Sol.

From (A)

T.S.A. of cylinder = 924

$$2\pi r^2 + 2\pi r h = 924 \quad [r \text{ is radius of cylinder and } h \text{ is height}]$$

$$h = 14$$

$$\Rightarrow 2 \times \frac{22}{7} [r^2 + 14r] = 924$$

$$\Rightarrow r^2 + 14r - 147 = 0$$

$$\Rightarrow r^2 + 21r - 7r - 147 = 0$$

$$\Rightarrow r(r + 21) - 7(r + 21) = 0$$

$$(r - 7)(r + 21) = 0$$

$$r = 7, -21$$

From (B)

$$\frac{3}{2} = \frac{2\pi r^2 + 2\pi r h}{2\pi r h}$$

$$\Rightarrow 2\pi r h = 4\pi r^2$$

$$\Rightarrow h = 2r$$

$$\Rightarrow r = 7 \text{ cm}$$

Either statement **A** or statement **B** by itself is sufficient to answer the question.

S5. Ans.(b)

Sol.

A. Let no. is x

$$x \times 20\% = \frac{x}{5}$$

$$\mathbf{B.} \frac{5x}{6} = x - 15$$

$$\Rightarrow x = 90$$

So, statement A is insufficient whereas statement B alone is sufficient to answer the question.

S6. Ans.(c)

Sol.

$$\text{Let area} = x \text{ m}^2$$

Then,

$$250x + 3500 = 14500$$

By this equation, we can find x

So, all the three statements are required

S7. Ans.(d)

Sol.

$$\text{I. S.P.} = 252$$

$$\text{Profit} = 52$$

$$\text{C.P.} = 252 - 52 = 200$$

$$\text{II. Profit} = 80 \text{ (when no discount)}$$

$$\text{So, M.P} = 200 + 80 = 280$$

$$\text{III. When discount} = 0$$

$$\text{Profit} = 40\%$$

$$\text{Profit} = 200 \times \frac{40}{100} = 80$$

So, we can calculate M.P. and consequently discount percentage.

So, statement I with either II or III is necessary to answer the question

S8. Ans.(a)

Sol.

$$\text{I. Time to cross a pole} = 13 \text{ sec}$$

$$\frac{L_1}{S_1} = 13$$

$$\text{II. } \frac{L_1 + P}{S_1} = 27 \Rightarrow \frac{L_1 + 250}{S_1} = 27$$

$$\text{III. } \frac{L_1 + L_2}{S_1 - S_2} = 32$$

So, from above equations, we can see statement I & II are sufficient to find out speed of train.

S9. Ans.(d)

Sol.

$$\text{I. } A \times \frac{115}{100} = 1.61 \text{ lakh}$$

$$\text{II. } A : B = 7 : 8$$

$$\text{III. } B = 1.6 \text{ lakh}$$

So, we can see, population of A can be find out either only by statement I or statement II & III together.

S10. Ans.(e)

Sol.

I. $n \times 10 = 8 \times 8 \times 5$

II. $n \times 10 = 20 \times 16$

III. $n \times 10 = 8 \times 5 \times 8$

So, from any of the three statements,
we can get the answer.

S11. Ans.(b)

Sol.

Series is $\times 1.5, \times 2, \times 2.5, \times 3, \times 3.5$

$$\therefore ? = 135 \times 3.5 = 472.5$$



S12. Ans.(d)

Sol.

Series is $\div 2 + 2, \times 2 + 2, \div 2 + 2, \times 2 + 2, \div 2 + 2$

$$\therefore ? = 78 \div 2 + 2 = 41$$

S13. Ans.(c)

Sol.

Series is $+ 2^2, + 3^3, + 4^2, + 5^3, + 6^2$

$$\therefore ? = 201 + 6^2 = 237$$

S14. Ans.(e)

Sol.

Series is $+ 1.5^2, + 2.5^2, + 3.5^2, 4.5^2, + 5.5^2$

$$\therefore ? = 46 + (5.5)^2 = 76.25$$

S15. Ans.(d)

Sol.

Series is $\times 2 - 7, \times 2 - 6, \times 2 - 5, \times 2 - 4, \times 2 - 3$

$$\therefore ? = 2114 \times 2 - 3 = 4225$$

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