

Quiz Date: 21st May 2020

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

Q1. How many marks did Neeraj obtained in Mathematics?

(I) Neeraj obtained an average of 65% marks in Mathematics, English and Social science.

(II) Neeraj secured 10% marks more in Mathematics than the average of Mathematics, English and Social Science.

(a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.

(b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question

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

(d) Either statement I or statement II by itself is sufficient to answer the question.

(e) Statements I and II taken together are not sufficient to answer the question.

Q2. There are four consecutive even number what is the value of smallest number among these ?

(I) The average of the four consecutive even number is the first prime number greater than 8.

(II) The difference between the largest and the smallest of the number is less than 10.

(a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.

(b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question

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

(d) Either statement I or statement II by itself is sufficient to answer the question.

(e) Statements I and II taken together are not sufficient to answer the question.

Q3. A sum of Rs. 705 is distributed among three persons P, Q and R. Who gets the least?

(I) P gets $\frac{2}{3}$ rd of what (Q + R) are getting.

(II) Q gets $\frac{1}{4}$ th of what (P + R) are getting.

(a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.

(b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question

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

(d) Either statement I or statement II by itself is sufficient to answer the question.

(e) Statements I and II taken together are not sufficient to answer the question.

Q4. What is length of rectangle?

I. Ratio between radius & height of a cylinder is 7 : 6 and breadth of rectangle is equal to height of cylinder. Volume of cylinder is 7392 cm^3 and perimeter of rectangle is 80 cm.

II. Length of rectangle is two times of side of square, of area 196 cm^2 .

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together are required
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient



Q5. A bag contains seven red, 'y' blue & 'x' yellow balls. How many total blue & yellow balls together?

I. One ball is drawn from bag, probability of being that ball blue is $\frac{1}{4}$.

II. One ball is drawn from bag, probability of being that ball yellow is $\frac{2}{5}$.

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together sufficient
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q6. Ratio of speed of two train is 4 : 5 and length of faster train & slower train is 120 m & 160 m respectively. Find difference between speeds of two trains (in km/hr)?

I. If both train running in opposite direction passed each other in $\frac{56}{9} \text{ sec}$.

II. Faster train crosses a man running in opposite direction at speed of 9 km/hr in $\frac{24}{5.5} \text{ sec}$.

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient
- (c) Statement I and II both together are required
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q7. What profit shopkeeper made on article?

I. Shopkeeper sold article on 5% discount at Rs.7600.

II. If shopkeeper sold article on marked price, he would made a profit of 25%.

- (a) Only statement I is sufficient
- (b) Only statement II is sufficient

- (c) Statement I and II both are required
- (d) Either statement I or Statement II alone sufficient
- (e) Neither statement I or statement II sufficient

Q8. Find the age of Chauhan if minimum age difference between the age of any two persons (out of Abhi, Billi & Chauhan) is 2 years.

- (i) Ratio of age of Chauhan to Billi is 3 : 2.
- (ii) Ratio of age of Abhi 6 years ago to age of Billi 2 years hence is 1 : 2.
- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.
- (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (d) Either statement I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

Q9. Calculate the rate of interest

- (i) An amount of Rs. 864 is obtained at the principal of Rs. 800 at SI.
- (ii) An amount of Rs. 176 is obtained after 19 years when Rs. 100 is submitted at SI.
- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.
- (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (d) Either statement I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

Q10. What is the area of equilateral ΔABC .

- (i) The height of triangle is $3\sqrt{3}$ cm.
- (ii) Ratio of area of triangle ABC to area of similar triangle PQR is 9 : 4.
- (a) Statement I alone is sufficient to answer the question but statement II alone is not sufficient to answer the questions.
- (b) Statement II alone is sufficient to answer the question but statement I alone is not sufficient to answer the question.
- (c) Both the statements taken together are necessary to answer the questions, but neither of the statements alone is sufficient to answer the question.
- (d) Either statement I or statement II by itself is sufficient to answer the question.
- (e) Statements I and II taken together are not sufficient to answer the question.

Solutions

S1. Ans.(e)

Sol.

No marks are given in numbers.

So, we can't find the marks obtained in Mathematics.

S2. Ans.(a)

Sol.

I. Let the four consecutive even integer be

$x, x + 2, x + 4$ and $x + 6$

$$x + x + 2 + x + 4 + x + 6 = 11 \times 4 = 44$$

$$\Rightarrow x = \frac{32}{4} = 8$$

II. we can't find from statement II

So, statement I alone is sufficient to answer.

S3. Ans.(c)

Sol.

I. Let P gets Rs. $2x$ and $(Q + R)$ gets Rs. $3x$

$$\Rightarrow 2x + 3x = \text{Rs. } 705$$

$$\Rightarrow x = \text{Rs. } 141$$

$$P = 2 \times 141 = \text{Rs. } 282$$

$$Q + R = 3 \times 141 = \text{Rs. } 423$$

II. Let Q gets Rs. y and $(P + R)$ gets Rs. $4y$

$$\Rightarrow y + 4y = 705$$

$$\Rightarrow y = 141$$

$$P + R = 4 \times 141 = \text{Rs. } 564$$

From I and II

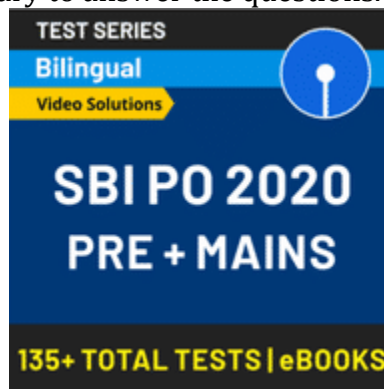
$$P = \text{Rs. } 282$$

$$Q = \text{Rs. } 141$$

$$R = \text{Rs. } 564 - 282 = \text{Rs. } 282$$

Q gets the least among all.

So, both statements are necessary to answer the questions.



S4. Ans(d)

Sol.

From I –

Let radius & height of cylinder is $7x$ and $6x$ respectively

ATQ –

$$\frac{22}{7} \times 49x^2 \times 6x = 7392$$

$$x = 2 \text{ cm}$$

$$\text{Breadth of rectangle} = 2 \times 6 = 12 \text{ cm}$$

Let length of rectangle be L cm.

$$\text{Given, } 2(L + 12) = 80$$

$$L = 40 - 12$$

$$L = 28 \text{ cm}$$

From II -

Side of square = a cm

$$\text{Given, } a^2 = 196$$

$$a = 14 \text{ cm}$$

$$\text{Length of rectangle} = 14 \times 2 = 28 \text{ cm}$$

So, either from statement I or statement II we can determine the answer

S5. Ans(c)

Sol.

Total number of balls in the bag = $(7 + y + x)$

From I -

$$\frac{y}{(7 + y + x)} = \frac{1}{4}$$

$$-x + 3y = 7 \text{ ----- (i)}$$

From II -

$$\frac{x}{(7 + y + x)} = \frac{2}{5}$$

$$3x - 2y = 14 \text{ ----- (ii)}$$

From (I) & (II) -

$$x = 8, y = 5$$

Total blue & yellow balls in bag = $8 + 5 = 13$

So, statement I and statement II together are required to answer the question

S6. Ans(d)

Sol.

Let speed of two trains be $4x \text{ m/s}$ & $5x \text{ m/s}$ respectively

From I -

$$\frac{(120+160)}{9x} = \frac{56}{9}$$

$$x = 5$$

$$\text{Required difference} = (5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18 \text{ km/hr}$$

From II -

$$\frac{120}{5x + \frac{5}{2}} = \frac{240}{55}$$

$$x = 5 \text{ m/s}$$

$$\text{Required difference} = (5 \times 5) \times \frac{18}{5} - (5 \times 4) \times \frac{18}{5} = 90 - 72 = 18 \text{ km/hr}$$

So, either from statement I or statement II we can determine the answer

S7. Ans(c)

Sol.

Form I –

Selling price of article = 7600 Rs.

Marked price of article = $\frac{7600}{95} \times 100$

= 8000 Rs.

From II –

Cost price = $\frac{8000}{125 \times 100}$

= Rs 6400

From I & II –

Profit of shopkeeper = 7600 – 6400 = 1200 Rs.

So, statement I and statement II together required to answered the question

S8. Ans.(e)

Sol.

Let the age of Abhi, Billi and Chauhan is A, B and C years respectively.

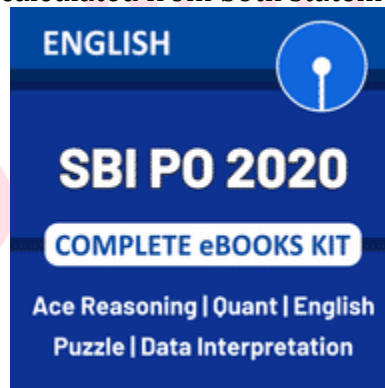
From (i)

C : B is 3 : 2

From (ii)

$$\frac{A-6}{B+2} = \frac{1}{2} \Rightarrow 2A - B = 14$$

Hence age of Chauhan can't be calculated from both statements.



S9. Ans.(b)

Sol.

Nothing can be said from Ist statements as time is not given.

From (ii)

Rs. 76 is obtained in 19 years, which means Rs. 4 per year on Rs. 100.

Hence rate is 4%.

Hence, answer can be calculated only from statement (ii)

S10. Ans.(a)

Sol.

Area of equilateral Δ is $\frac{\sqrt{3}}{4} a^2$ where a is side of equilateral triangle.

From (i) height of equilateral triangle is $\frac{\sqrt{3}}{2} a$

$$\therefore \frac{\sqrt{3}}{2} a = 3\sqrt{3} \text{ cm}$$

$$\Rightarrow a = 6 \text{ cm.}$$

$$= \frac{\sqrt{3}}{4} \times 36 \Rightarrow 9\sqrt{3} \text{ cm}^2$$

Nothing can be said from statement II.

Answer can be calculated only from statement (i)

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