

Quiz Date: 24th April 2020

Directions (1-8): Each of the following question is followed by two statements I, and II. You have to study the question and the statements and decide which of the statement(s) is/are necessary to answer the question.

Q1. What is the time taken by Saif to cover a distance of 100 km by car?

I. Saif covers a distance of 100 km in 5 hours using bike.

II. Speed of bike and that of car is in ratio 5:7.

- (a) Only Statement I alone.
- (b) Only Statement II alone.
- (c) Both Statements I and II together.
- (d) Neither Statement I nor II is sufficient.
- (e) Either Statement I or II alone.

Q2. In how much time can Deepika do the work alone?

I. Kareena & Deepika can complete a piece of work in 10 days working together.

II. Madhuri and Kareena can complete the work in 6 days working together.

- (a) Only Statement I alone.
- (b) Only Statement II alone.
- (c) Both Statements I and II together.
- (d) Neither Statement I nor II is sufficient.
- (e) Either Statement I or II alone.

Q3. In how many ways can 4 boys and 5 girls be selected?

I. there are 20 persons (boys + girls) in the group out of which 12 are boys.

II. the ratio of boys to girls in the group is 3:2.

- (a) Only Statement I alone.
- (b) Only Statement II alone.
- (c) Both Statements I and II together.
- (d) Neither Statement I nor II is sufficient.
- (e) Either Statement I or II alone.

Q4. What is the volume of conical tent?

I. the height and radius of tent is in ratio 4:3, where sum of radius and height is 14m.

II. the slant height is 10 m while radius is 6 m.

- (a) Only Statement I alone.
- (b) Only Statement II alone.
- (c) Both Statements I and II together.
- (d) Neither Statement I nor II is sufficient.
- (e) Either Statement I or II alone.

Q5. Find the value of a and b?

I. $a:b = 3:2$

II. $a^3 - b^3 = 19$

Q6. What is the length of the train?

I. speed of train is 72 km/hr.

II. It crosses a pole in 10 sec.

- (a) only statement I is sufficient.
- (b) both statements I and II are necessary to solve the question
- (c) only statement II sufficient
- (d) Neither statement I nor statement II is sufficient to solve the question
- (e) Either statement I or II is sufficient to solve the question.

Q7. The marked price of an article is Rs. 320. What is the profit percent on the article?

I. cost price of article is Rs. 240 and seller offers 10% discount on its MP.

II. cost price of article is $83\frac{1}{3}\%$ of its selling price.

- (a) only statement I is sufficient
- (b) Both statements I and II are required to solve the questions.
- (c) Either statement I or II is sufficient to solve the question.
- (d) only statement II is sufficient to solve the question.
- (e) Neither statement I nor II is sufficient to solve the question and some more information are required.

Q8. What is the area of rectangle?

I. The perimeter of rectangle is 20% more than the perimeter of a square whose side is 15 m.

II. The ratio between length and breadth of rectangle is 3 : 2.

- (a) both statements I and II are required to solve the problem.
- (b) only statement I is sufficient.
- (c) either statement I or statement II is sufficient
- (d) only statement II is sufficient
- (e) Neither statement I nor statement II is sufficient to solve the question



Directions (9-13): In the following number series, find out the term which does not follow the usual pattern.

Q9. 1.5, 4, 19, 119, 959, 9600

- (a) 19
- (b) 9600

- (c) 119
- (d) 959
- (e) 4

Q10. 4.5, 19, 37.5, 72, 142.5, 278

- (a) 278
- (b) 142.5
- (c) 72
- (d) 37.5
- (e) 19

Q11. 48, 96, 96, 48, 192, 24, 380

- (a) 48
- (b) 192
- (c) 24
- (d) 380
- (e) 96

Q12. 142, 1000, 62, 214, 14, 6

- (a) 62
- (b) 214
- (c) 1000
- (d) 14
- (e) 6

Q13. 111, 136, 185, 266, 388, 556

- (a) 388
- (b) 136
- (c) 185
- (d) 266
- (e) 556

Directions (14-15): In each of the following questions, a question is followed by information given in three statements. You have to study the question along with the statements and decide the information given in which of the statement(s) is necessary and sufficient to answer the question.

Q14. What is the average weight of girls in the class?

I. Average weight of all the 60 students in class is 42 kg.

II. Average weight of boys in class is 43 kg

III. Total weight of all girls of class together is 1144 kg

- (a) Any two of three
- (b) All I, II & III
- (c) I & II only
- (d) II & III only
- (e) Question cannot be answered even with information in all three statements.

Q15. What is the selling price of the T.V. set if no discount is offered?

I. Profit earned was 20% when no discount offered.

II. Had 10% discount been offered on selling price the profit would have been Rs. 1200.

III. Cost price is Rs. 15000.

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

Solutions

S1. Ans(c)

Sol.

From I, speed of bike = $\frac{100}{5} = 20 \frac{km}{hr}$

From II,

Speed ratio $\frac{bike}{car} = \frac{5}{7}$

Speed of car = 28 kmph

Time taken = $\frac{100}{28} = 3\frac{4}{7}$ hour

So, both statement I and II together is sufficient.



S2. Ans(d)

Sol.

From I, Let time taken by Kareena alone and Deepika alone to complete the work be K days & D days respectively.

ATQ,

$$\frac{1}{K} + \frac{1}{D} = \frac{1}{10}$$

From II, Let time taken by Kareena alone and Madhuri alone to complete the work be K days & M days respectively.

ATQ,

$$\frac{1}{K} + \frac{1}{M} = \frac{1}{6}$$

From both, we cannot determine the time taken by Deepika when working alone.

So, neither statement I nor II is sufficient.

S3. Ans(a)

Sol.

From I, Boys = 12 Girls = 20 - 12 = 8

No. of ways = ${}^{12}C_4 \times {}^8C_5 = 27720$

From II, boys : girls = 3:2

No other information provided.

So, only statement I alone is sufficient.

S4. Ans(e)

Sol. let height, slant height and radius of tent be h, l, and r cm respectively.

From I, $\frac{h}{r} = \frac{4}{3}$

$h + r = 14$; from here we can determine values of h and r and then we can find volume of tent.

From II, $l = \sqrt{r^2 + h^2}$

From here, value of h can be determined then we can find volume of tent.

So, either statement I or II alone is sufficient.

S5. Ans(c)

Sol.

From I, $\frac{a}{b} = \frac{3}{2}$

From II, $a^3 - b^3 = (a - b)(a^2 + b^2 + ab) = 19$

On combining I & II:

$(3x - 2x)((3x)^2 + (2x)^2 + (3x)(2x)) = 19$

$\Rightarrow x = 1$

Hence, $a = 3$ & $b = 2$

So, both statements I & II together are sufficient.

S6. Ans.(b)

Sol.

From statement I

Speed of train (in m/s) = $72 \times \frac{5}{18} = 20$ m/s

From II,

Length of train = $20 \times 10 = 200$ m

Hence, both statements are required.

S7. Ans.(c)

Sol.

Given M.P. of article = Rs. 320

From I

C.P. = Rs. 240

S.P. = $\frac{90}{100} \times 320 = \text{Rs. } 288$

\therefore Profit Percentage = $\frac{288-240}{240} \times 100 = 20\%$

From II

Let Selling Price be Rs. $300x$

$$\text{So, cost price} = 300x \times \frac{250}{300} = \text{Rs. } 250$$

$$\text{So, Profit Percentage} = \frac{300x - 250x}{250x} \times 100 = 20\%$$

Hence, either statement I or statement II is sufficient

S8. Ans.(a)

Sol.

From I,

Perimeter of rectangle

$$= \frac{120}{100} \times (\text{Perimeter of square})$$

$$= \frac{120}{100} \times 15 \times 4$$

$$= 72 \text{ m}$$

From II,

Let length of rectangle = $3x$

Breadth of rectangle = $2x$

$$\therefore (3x + 2x) = \frac{72}{2}$$

$$\Rightarrow x = \frac{36}{5}$$

$$\therefore \text{Area of rectangle} = 3 \times \frac{36}{5} \times 2 \times \frac{36}{5} \text{ m}^2$$

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S9. Ans.(b)

Sol.

Series is

$$1.5 \times 2 + 1 = 4$$

$$4 \times 4 + 3 = 19$$

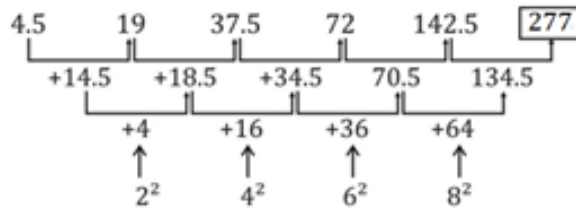
$$19 \times 6 + 5 = 119$$

$$119 \times 8 + 7 = 959$$

$$959 \times 10 + 9 = 9599$$

S10. Ans.(a)

Sol.



S11. Ans.(d)

Sol.

Series is

$$48 \div 0.5 = 96$$

$$96 \times 1 = 96$$

$$96 \div 2 = 48$$

$$48 \times 4 = 192$$

$$192 \div 8 = 24$$

$$24 \times 16 = 384$$

S12. Ans.(c)

Sol.

Series is

$$12^2 - 2 = 144 - 2 = 142$$

$$10^3 - 2 = 1000 - 2 = 998$$

$$8^2 - 2 = 64 - 2 = 62$$

$$6^3 - 2 = 216 - 2 = 214$$

$$4^2 - 2 = 16 - 2 = 14$$

$$2^3 - 2 = 8 - 2 = 6$$

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S13. Ans.(a)

Sol.

The pattern is

$$111 + 5^2 = 111 + 25 = 136$$

$$136 + 7^2 = 136 + 49 = 185$$

$$185 + 9^2 = 185 + 81 = 266$$

$$266 + 11^2 = 266 + 121 = 387$$

$$387 + 13^2 = 387 + 169 = 556$$

S14. Ans.(b)

Sol.

I) Total weight of 60 students of class
 $= 42 \times 60 = 2520 \text{ kg.}$

II) Average weight of boys = 43 kg.

III) Total weight of all girls = 1144 kg.

So, total weight of all boys = $2520 - 1144$
 $= 1376$

So, no. of boys = $\frac{1376}{43} = 32$

No. of girls = $60 - 32 = 28$

& average weight of girls = $\frac{1144}{28} = 40.86 \text{ kg.}$

\Rightarrow Hence, all statements are necessary.

S15. Ans.(a)

Sol.

From I & II,

Let CP = x

$$\text{S.P} = \frac{6x}{5}$$

$$\text{Now, New S.P} = \frac{6x}{5} \times \frac{90}{100} = \frac{54x}{50}$$

$$\Rightarrow \frac{54x}{50} - x = 1200$$

$$\Rightarrow x = \text{Rs. } 15000$$

$$\therefore \text{SP.} = \text{Rs. } 18000$$

& from III & I, we can obtain selling price.

& from II & III,

Let S.P. = x

When 10% discount,

$$\text{S.P.} = \frac{9x}{10}$$

$$\therefore \frac{9x}{10} - 15000 = 1200$$

$$\Rightarrow x = 18000$$

Thus, any two statements are sufficient to answer question.

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