

Quiz Date: 21st April 2020

Directions (1-5): In the following questions three statements either A, B and C or I, II and III are given. You have to use your knowledge of mathematics to answer which statement(s) is/are sufficient to answer the question.

Q1. What is the age of Ravi?

A: Four years ago, Raju was as old as Ravi is at present.

B: Rita's present age is two times of Raju's present age.

C: The average age of Ravi and Rita is 19 years.

(a) A is sufficient to give answer

(b) Any two statements are sufficient to give answer

(c) All of three statements are necessary to give answer

(d) Even using all the three statements answer cannot be found.

(e) Only C is sufficient.

Q2. What is the cost price of wrist watch?

A: Shopkeeper gives 20% discount on a speaker.

B: The marked price of wrist watch is 25% more than that of speaker.

C: The shopkeeper earns a profit of 10% after selling the speaker.

(a) Any two of them are sufficient

(b) All the three statements are required

(c) Only C is sufficient.

(d) Even using all statements, answer cannot be found

(e) Only A is sufficient

Q3. What is the total surface area of a cylinder?

A. If ratio of base radius and height of the cylinder is 2 : 5.

B. Total circumference of top and bottom surface is 176 cm and volume is numerically 18,480 more than its curved surface area.

C. If radius of the cylinder is 21cm less than its height.

(a) Only B

(b) Only B or either A or C.

(c) Can't be determined

(d) Only B or Only A & C

(e) None of these

Q4. The speed of a train A and time taken by it to cross a tunnel is known. Find length of tunnel.

A: Another train B is running in opposite direction to A with a speed 40% more than A.

B: Train B crosses a platform X and a pole in 24 sec and 8 sec respectively before crossing the train A and tunnel.

C: The ratio of length of train A and platform X is 3 : 5.

(a) Only A and B are sufficient.

(b) Only B and C are sufficient

- (c) Even using all the three statements answer cannot be found.
(d) All the three statements are required.
(e) Only B is sufficient

Q5. In how many ways 2 green balls can be chosen from box 'A' which contains red, green and black balls?

A: Ratio of total number of balls in boxes A and B is 2 : 3 and box A contains 5 green balls.

B: Total balls in box B is 18 while ratio of red and black balls in box A is 3:4.

C: Box 'B' contains 5 red 7 black and 6 green balls only while ratio of red and green balls in box 'A' is 3:5.

- (a) Statement A and either B or C are sufficient
(b) Any two statements are sufficient
(c) All the three statements are required
(d) Statement B and either A or C are sufficient
(e) None of these



Directions (6-10): Find the wrong number in the following number series.

Q6. 4, 7, 20, 60, 142, 223

- (a) 60
(b) 142
(c) 223
(d) 4
(e) 7

Q7. 116, 1140, 1396, 1460, 1474, 1480

- (a) 1140
(b) 1474
(c) 1480
(d) 116
(e) 1460

Q8. 3, 11, 34, 69, 131, 223

- (a) 11
(b) 34
(c) 69
(d) 131

(e) 223

Q9. 1, 6, 26, 84, 166, 171

- (a) 6
- (b) 26
- (c) 171
- (d) 84
- (e) 1

Q10. 9, 5, 9, 25, 95, 414

- (a) 9
- (b) 25
- (c) 414
- (d) 95
- (e) 5

Directions (11-15):The following questions are accompanied by three statements I or A, II or B and III or C. You have to determine which statement(s) is/are sufficient/necessary to answer the questions and mark your answer accordingly

Q11. What is the average age of the six members A, B, C, D, E & F in a family?

- I. Total age of D & E is 14 years.
- II. Average age of A, B, C and F is 50 years
- III. Average age of A, B, D and E is 40 years

- (a) Only I & II
- (b) Only I & III
- (c) Only II & III
- (d) All I, II & III
- (e) None of these

Q12. What is the rate of interest p.a?

- I. A sum doubles itself at simple interest in 10 years.
- II. The difference between the compound interest and the simple interest on a sum of Rs. 15,000 in two years is Rs. 150.
- III. The compound interest accrued in 4 years is Rs. 8038.5 less than the amount (principal).

- (a) Only I
- (b) Only II
- (c) Only II & III
- (d) Only I & III
- (e) Only I or only II

Q13. 8 men and 6 women can complete a piece of work in 21 days. How many days will it take for 12 men and 9 women to complete the same work?

- A. 6 men can complete the work in 42 days.
- B. 7 women can complete the work in 63 days.
- C. The amount of work done by a woman is four seventh of the work done by a man in one day.

- (a) Any two of them
- (b) Any of them
- (c) Only C
- (d) Either A or B only
- (e) No need of any information

Q14. A train crosses another train in 10 sec. Find out the lengths of the trains.

- A. Ratio between the lengths of second and first train is 4 : 5.
- B. Ratio between the speed of first and second trains is 1 : 2.
- C. The speed of first train is 36 km/hr.

- (a) Only A and B together
- (b) Only B and C together
- (c) Only A and C together
- (d) Questions can't be answered even after using all the information
- (e) None of these

Q15. What is the cost price of a table?

- A. By selling the table for Rs. 600 instead of Rs. 500, loss per cent decreases by 10%.
- B. When the cost price of the table increases by 10% and then decreases by 10%, it reduces by Rs. 10.
- C. By selling the table and a chair for Rs. 1500 a net profit of 25% is made.

- (a) Only A or B alone
- (b) Only B or C alone
- (c) Only A and C together
- (d) Any two of them together
- (e) Either B alone or A and C together are sufficient



Solutions

S1. Ans.(c)

Sol.

From statement A,

Let present age of Ravi = x

∴ Present age of Raju = (x + 4)

From B,

Rita's present age = 2(x + 4)

From C,

$$2x + 8 + x = 2 \times 19$$

$$\Rightarrow x = 10 \text{ years}$$

S2. Ans.(d)

Sol.

From statement A,

Let MP of speaker = Rs. 100

\therefore SP = 80 rupees

From B,

MP of wrist watch = 1.25 M.P of speaker = Rs. 125 (From st. A)

From C,

$$\begin{aligned} \text{C. P. of speaker} &= 80 \times \frac{100}{110} \\ &= \frac{800}{11} \text{ (from st. A)} \end{aligned}$$

Here, there is no information about S.P. and Profit of watch. So, answer cannot be found.

S3. Ans.(d)

Sol.

From Only B

Let height of cylinder be h cm

$$2 \times 2\pi r = 176 \text{ [r} \rightarrow \text{radius of circle]}$$

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

ATQ

$$\pi r^2 h - 2\pi r h = 18480$$

$$h = 35 \text{ cm}$$

thus we can find total surface area

From A and C

Let radius and height be 2x cm and 5x cm respectively

$$5x - 2x = 21$$

$$x = 7 \text{ cm}$$

we can find total surface area

Only B or Only A & C

S4. Ans.(d)

Sol.

From st. A,

Speed of train A = P m/sec (Given)

$$\text{Speed of train B} = \frac{140}{100} \text{ of P}$$

$$= \frac{14P}{10}$$

From st. B+A,

Length of platform

$$= 24 \times \frac{14P}{10} - \frac{14P}{10} \times 8$$

$$= 16 \times \frac{14P}{10}$$

BANKERS

adda247

$$= 22.4 P$$

From C, Length of train A

$$= \frac{3}{5} \times 22.4P \text{ (with help of st. A and B together)}$$

$$\therefore \text{Length of tunnel} = Pt(\text{given}) - \frac{3}{5} \times 22.4P$$

S5. Ans.(a)

Sol.

From A

let total number of balls in A and B are $2x$ and $3x$ respectively.

Green ball in A = 5

From B

Total balls in B = 18

Let red ball and black ball in bag A be $3y$ and $4y$ respectively.

From C

In bag B, no. of red ball, black ball and green ball are 5, 7 and 6 respectively.

Ratio of red ball and green ball in bag A = 3 : 5

From A and B

$$\text{Total balls in bag A} = \frac{18}{3} \times 2 = 12 \text{ balls}$$

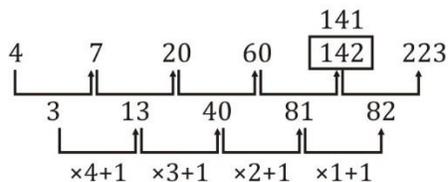
From A and C

$$\text{Total balls in bag A} = \frac{5+7+6}{3} \times 2 = 12$$

So, Statement A and either B or C are sufficient.

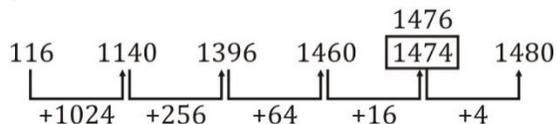
S6. Ans.(b)

Sol.



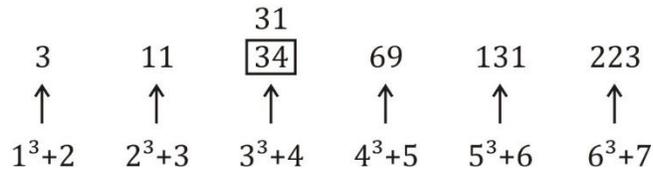
S7. Ans.(b)

Sol.



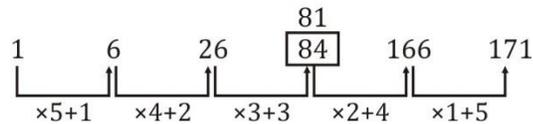
S8. Ans.(b)

Sol.



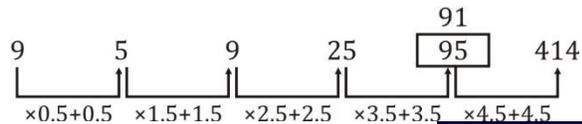
S9. Ans.(d)

Sol.



S10. Ans.(d)

Sol.



S11. Ans.(a)

Sol. From I : $D + E = 14$

From II : $A + B + C + F = 200$

∴ From I and II average age can be find out.

S12. Sol. (e)

Sol.

Let amount be Rs. P and interest be R%.

From

let amount be Rs. P

$$P = \frac{P \times R \times 10}{100}$$

$$R = 10\%$$

From II

$$150 = \frac{15000 \times R^2}{100 \times 100}$$

$$R^2 = 100$$

$$R = 10\%$$

From III

RBI

ASSISTANT

MAHA PACK

Live Class, Video Course
Test Series, e-Books

Bilingual

BANKERS

adda247

$$P - 8038.5 = P \left[\left(1 + \frac{R}{100} \right)^4 - 1 \right]$$

From III, R cannot be determined.

So, only I or Only II sufficient.

S13. Ans.(e)

Sol.

$$8M + 6W = \frac{W}{21}$$

$$1.5(8M + 6W) = 1.5 \times \frac{W}{21}$$

$$12M + 9W = \frac{W}{14} = 14 \text{ days}$$

So, no need of any information

S14. Ans.(d)

Sol. Can't be answered because direction of the trains are not given .

S15. Ans.(a)

Sol.

From A; $600 - 500 = 10\%$ of cost price

Hence cost price = $\frac{100}{10} \times 100 = 1000$

From B

$\frac{10 \times 10}{100}\%$ of cost price = 10,

1% of Cost price = 10; 100% of Cost price = 1000

BANKERS

adda247

For any Banking/Insurance exam Assistance, Give a Missed call @ 01141183264