

Quiz Date: 5th March 2020

Q1. A milkman buys some milk. If he sells it at Rs 5 per litre, he loses Rs 300, but when he sells it at Rs 6 per litre, he gains Rs 250. How much milk did he purchase?

- (a) 550 lt
- (b) 300 lt
- (c) 250 lt
- (d) 800 lt
- (e) 650 lt

Q2. In an election 8% of the voters did not cast their votes. In this election, there were only two candidates. The winner got 48% of the total votes and defeated his opponent by 1200 votes. Find the total number of voters in the election?

- (a) 20000
- (b) 30000
- (c) 35000
- (d) 25000
- (e) 36000

Q3. Bhavya have 10,000 Rs. He invested some amount in Scheme 'A' which offers 15% p.a. at SI and rest in Scheme 'B' which offers 20% p.a. at CI. Interest earned from scheme 'A' after 2 years is 780Rs more than interest earned from scheme 'B' after 2 years. Find the amount invested in Scheme 'B'?

- (a) 8000 Rs
- (b) 7000 Rs
- (c) 3000 Rs
- (d) 2000 Rs
- (e) 5000 Rs

Q4. A train travels 60% faster than a car. Both start from point A at the same time and reaches point B at the same time, which is 160 km away from each-other. If on the way the train stop for 20 minutes at station, then find the speed (in km/hr) of the train?

- (a) 144
- (b) 168
- (c) 198
- (d) 288
- (e) 248

Q5. A takes three times as long as B and C together take to do a job. If all the three working together and complete the job in 24 days, then find in how many days A will complete the job alone?

- (a) 100
- (b) 96
- (c) 84
- (d) 90
- (e) 104

Q6. Find the ratio of area of a circle to area of square if perimeter of circle and square is equal?

- (a) 11 : 14
- (b) 11 : 4
- (c) 8 : 11
- (d) 14 : 11
- (e) 2 : 4

Q7. The average score of a cricketer in 8 innings is 44. He had scored 60, 24, x, 50, 73, y, z, 13 respectively in those innings. Find the average of x, y and z?

- (a) 40
- (b) 44
- (c) 48
- (d) 52
- (e) 42

Q8. A librarian purchased 50 story books for his library. But he saw that he could get 12 more books, if he spends Rs. 128 more and the average price per book would be reduced by Rs.2. Then find average price (in Rs.) of each book he bought?

- (a) 15
- (b) 25
- (c) 20
- (d) 21
- (e) 23

Q9. A Jar contains water and milk in the ratio of 2: 3. Some milk is added in the Jar whose amount is equal to 30% of water present in the Jar. After this, some water is added whose amount is equal to 10% of quantity of milk present in Jar presently. What is the new ratio of water and milk in the Jar?

- (a) 59 : 90
- (b) 11 : 18
- (c) 90 : 59
- (d) 18 : 11
- (e) 57 : 67

Q10. Marks scored by Sumit is 12.5% more than Sahil's marks. Ajay got $6\frac{2}{3}\%$ more marks than Sumit's. If difference between marks scored by Ajay and Sahil is 40, then find the total marks scored by all three?

- (a) 665
- (b) 450
- (c) 555
- (d) 745
- (e) 625

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Direction (11-15): What number is wrong according to given number series pattern: –

Q11. 36, 71, 117, 175, 246, 332

- (a) 71
- (b) 117
- (c) 246
- (d) 175
- (e) 332

Q12. 18, 72, 36, 150, 72, 288

- (a) 72
- (b) 288
- (c) 150
- (d) 36
- (e) 18

Q13. 25, 31, 44, 63, 93, 135

- (a) 31
- (b) 44
- (c) 93
- (d) 63
- (e) 135

Q14. 15, 27, 51, 87, 135, 196

- (a) 87
- (b) 27
- (c) 15
- (d) 51
- (e) 196

Q15. 47, 57, 81, 130, 211, 332

- (a) 57
- (b) 130
- (c) 211
- (d) 332
- (e) 81

Solutions

S1. Ans. (a)

Sol.

Let the milkman buy = y litre of milk.

At the rate of = x Rs./litre

$$xy - 5y = 300 \text{ ----- (i)}$$

$$6y - xy = 250 \text{ -----(ii)}$$

from solving equation (i) & (ii)

$$y = 550 \text{ litre}$$

S2. Ans. (b)

Sol.

Let the Total No. of voters = 100x

$$\text{Total No. of voters casted vote} = 100x - 8x = 92x$$

Winner has received = 48x

$$\begin{aligned} \text{Another candidate received} &= 92x - 48x \\ &= 44x \end{aligned}$$

$$\text{Given, } 48x - 44x = 1200$$

$$x = 300$$

$$\text{Total no. of voters} = 300 \times 100 = 30000$$



S3. Ans.(c)

Let Amount invested by Bhavya in Scheme 'B' = Rs x

Amount invested by Bhavya in Scheme 'A' = Rs (10000 - x)

ATQ,

$$\frac{(10000 - x) \times 2 \times 15}{100} - x \left[\left(1 + \frac{20}{100} \right)^2 - 1 \right] = 780$$

$$\frac{(10000 - x) \times 3}{10} - x \left[\left(\frac{144}{100} - 1 \right) \right] = 780$$

$$\frac{30000}{10} - \frac{3x}{10} - \frac{44x}{100} = 780$$

On Solving x = 3000 Rs.

S4. Ans. (d)

Sol. let the speed of train = 160x km/hr

Let the speed of car = 100x km/hr

$$\frac{160}{160x} + \frac{20}{60} = \frac{160}{100x}$$

$$\frac{1}{x} + \frac{1}{3} = \frac{8}{5x}$$

$$\frac{1}{3} = \frac{8-5}{5x}$$

$$x = \frac{9}{5}$$

$$\text{Speed of the train} = 160 \times \frac{9}{5}$$

$$= 32 \times 9$$

$$= 288 \text{ km/hr}$$

S5. Ans.(b)

Sol.

Since time taken by A and B&C together is in the ratio of 3:1

So, efficiency of A and B&C together to do a job is in the ratio of 1:3

$$\frac{3}{A} = \frac{1}{B} + \frac{1}{C} \quad \dots(i)$$

$$\frac{1}{A} + \frac{1}{B} + \frac{1}{C} = \frac{1}{24} \quad \dots(ii)$$

From eqn (i) and (ii)

$$\frac{4}{A} = \frac{1}{24}$$

$$A = 96 \text{ Days}$$

S6. Ans.(d)

Let radius of circle and side of square are 'r' and 'a' respectively

Perimeter of Circle and square is equal

$$\Rightarrow 2\pi r = 4a$$

$$a = \frac{\pi r}{2}$$

Required Ratio = Area of circle : Area of square

$$= \pi r^2 : a^2$$

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$$= \pi r^2 : \left(\frac{\pi}{2} r\right)^2$$

$$= 14 : 11$$

S7. Ans.(b)

Sol. $\frac{60+24+50+73+13+x+y+z}{8} = 44$

$$x + y + z = 352 - 220$$

$$x + y + z = 132$$

$$\text{Average of } (x, y \text{ \& } z) = \frac{x+y+z}{3}$$

$$= \frac{132}{3} = 44$$

S8. Ans.(d)

Sol.

Let the average = x Rs.

$$50x + 128 = 62(x - 2)$$

$$50x + 128 = 62x - 124$$

$$12x = 252$$

$$x = 21 \text{ Rs.}$$

S9. Ans. (a)

Sol.

Let quantity of water and milk present in jar be $200x$ and $300x$

$$1. \text{ Milk added } 30\% \text{ of quantity of water} \rightarrow \frac{30}{100} \times 200x = 60$$

Now, milk quantity $\rightarrow 360x$

$$2. \text{ water added milk present } 10\% \text{ of quantity of} = \frac{10}{100} \times 360x = 36x$$

Water quantity become = $236x$

New ratio of water : Milk = $236x : 360x$

$$= 59 : 90$$

S10. Ans. (a)

Sol.

Let Sahil's marks = $80x$

$$\text{So, Sumit's marks} = \frac{80x \times 112.5}{100} = 90x$$

$$\text{So, Ajay's marks} = \frac{90x \times 106\frac{2}{3}}{100} = 96x$$

ATQ,

Ajay's marks is 40 more than the Sahil's marks

$$\Rightarrow 96x - 80x = 40$$

$$\Rightarrow x = 2.5$$

$$\text{Total marks scored by all three} = (80 + 90 + 96) \times 2.5 = 266 \times 2.5 = 665$$

S11. Ans.(e)

Sol.

Patter is :

$$\begin{array}{cccccc}
 +35, & +46, & +58, & +71, & +85 \\
 \hline
 & +11 & +12 & +13 & +14
 \end{array}$$

So, Wrong number is — 332

Right number should be = $246 + 85 = 331$

S12. Ans.(c)

Sol.

Pattern is —

$$18 \times 4 = 72,$$

$$72 \div 2 = 36,$$

$$36 \times 4 = 144,$$

$$144 \div 2 = 72$$

$$72 \times 4 = 288$$

So wrong number is — 150

Right number should be = 144

S13. Ans.(b)

Sol.

Pattern is —

$$25 + (2^2 + 2) = 31$$

$$31 + (3^2 + 3) = 43$$

$$43 + (4^2 + 4) = 63,$$

$$63 + (5^2 + 5) = 93,$$

$$93 + (6^2 + 6) = 135$$

So, wrong number is — 44

Right number should be = 43

S14. Ans.(e)

Sol.

Pattern is —

$$15 + (13 \times 1 - 1) = 27$$

$$27 + (13 \times 2 - 2) = 51$$

$$51 + (13 \times 3 - 3) = 87$$

$$87 + (13 \times 4 - 4) = 135$$

$$135 + (13 \times 5 - 5) = 195$$

Wrong number is 196

Right number should be = 195

S15. Ans.(a)

$$\text{Sol. } 47 + 3^2 = 56$$

$$56 + 5^2 = 81$$

$$81 + 7^2 = 130$$

$$130 + 9^2 = 211$$

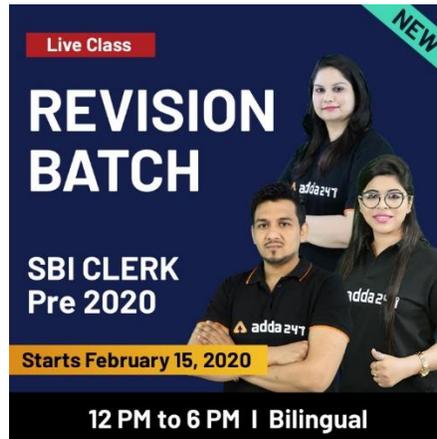
$$211 + 11^2 = 332$$

Wrong number is 57

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Right number should be = 56



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