

Quiz Date: 25th February 2020

Q1. The simple interest on certain sum of money at 8% per annum for 2 years is Rs. 25.6 less than the simple interest on the same sum at the rate of 6% per annum for 3 years. What is the sum?

- (a) Rs. 2560
- (b) Rs. 1200
- (c) Rs. 1280
- (d) Rs. 3300
- (e) Rs. 2700

Q2. The population of village is increases by a certain rate of interest (compounded annually). If the current population of village be 3600 and the ratio of population for second year and 3rd year be 6:7. What was the population of village 2 years after?

- (a) 4000
- (b) 4900
- (c) 4600
- (d) 5000
- (e) 5600

Q3. Income of B is 80% more than that of A. If A expends $37\frac{1}{2}\%$ of his income and saving of B is $\frac{5}{9}$ th of his income and given that saving of A and B be Rs. 3900. Find the difference between their income?

- (a) Rs 1800
- (b) Rs 2000
- (c) Rs 1760
- (d) Rs 1860
- (e) Rs 1920

Q4. A and B working together can do a work in 8 days while A alone can do the same work in 10 days Find the time taken by C alone to do that work if C takes 8 days less than that of B alone to do that work?

- (a) 32 days
- (b) 34 days
- (c) 24 days

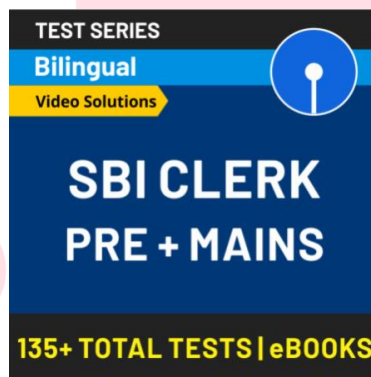
- (d) 20 days
- (e) 30 days

Q5. If perimeter of equilateral triangle and square be same and diagonal of square $12\sqrt{2}$ cm, then find the area of equilateral triangle?

- (a) $64\sqrt{3}$ cm²
- (b) $32\sqrt{3}$ cm²
- (c) $60\sqrt{3}$ cm²
- (d) $62\sqrt{3}$ cm²
- (e) $72\sqrt{3}$ cm²

Q6. A person travels half of a distance at the speed of x kmph and remaining distance covered at the speed of 40% less than his initial speed, then find his initial speed if the average speed is 18.75 kmph?

- (a) 21 kmph
- (b) 25 kmph
- (c) 24 kmph
- (d) 23 kmph
- (e) 20 kmph



Q7. A, B and C invested in a ratio of 2:5:3 in a business. If A got Rs. 1600 as an annual profit out of Rs.5400. if A invest for 12 months while B and C invest for x months and x+3 months respectively, then find the value of x?

- (a) 5
- (b) 6
- (c) 8
- (d) 4
- (e) 9

Q8. Aakash sold one article at 20% profit and another at $16\frac{2}{3}\%$ loss. Find his overall profit/loss if the selling price of each article is Rs. 1800?

- (a) Rs.60
- (b) Rs.55
- (c) Rs.66
- (d) Rs.75

(e) Rs.56

Q9. A container contains a mixture of milk and water in the ratio of 3:2. When $33\frac{1}{3}\%$ of the mixture is taken out and replaced by 20 liters of milk then the ratio of milk and water in the mixture becomes 5:2. Find the initial quantity of mixture?

- (a) 60 liters
- (b) 70 liters
- (c) 80 liters
- (d) 68 liters
- (e) 75 liters

Q10. Average of 3 number is same as the 2 times the first number and same as the 2nd number. find the third number if average of three number is 20.

- (a) 34
- (b) 20
- (c) 30
- (d) 24
- (e) 36

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Directions (11-15): Given data shows that the total number of employees, employee in Technical Department and Marketing Department of five different company. Some data are missing. You have to calculate these values and answer the following questions.

Note – Total Employee = Technical Employee + Marketing Employee + Other Employee

Company	Total employee	Technical employees	Marketing employees	Other employees (in %)
Nokia	-	85	75	60
Samsung	260	50	80	-
Xiaomi	480	100	80	-
Real-me	640	-	60	60
Huawei	520	120	-	50

Q11. Find the average no. of total employees in all five company together?

- (a) 540

- (b) 560
- (c) 490
- (d) 460
- (e) 520

Q12. Find number of marketing team employees in the Huawei company?

- (a) 150
- (b) 100
- (c) 140
- (d) 200
- (e) 160

Q13. Marketing employees of Real-me is what percentage more/ less than the technical employees of the Samsung?

- (a) 10%
- (b) 20%
- (c) 25%
- (d) 30%
- (e) 35%

Q14. Find the difference between number of Real-me Technical employees and marketing employees of the Huawei company?

- (a) 72
- (b) 48
- (c) 52
- (d) 45
- (e) 56

Q15. Find the ratio of number of employee of others department in Samsung company and that of Xiaomi?

- (a) 13:10
- (b) 10:13
- (c) 4:5
- (d) 5:4
- (e) 13:30

Solutions

S1. Ans.(c)

Sol.

Let the sum be Rs. P.

According to question,

$$\frac{P \times 6 \times 3}{100} - \frac{P \times 8 \times 2}{100} = 25.6$$

$$\Rightarrow \frac{2P}{100} = 25.6$$

$$P = 1280$$

S2. Ans.(b)

Sol. Ratio = 6: 7

$$\therefore \Rightarrow \frac{7-6}{6} \times 100 = 16\frac{2}{3}\%$$

$$\text{A/q, } 3600 \left(1 + \frac{16\frac{2}{3}}{100}\right)^2$$

$$\begin{aligned} \therefore \text{population} &= 3600 \times \frac{7}{6} \times \frac{7}{6} \\ &= 4900 \end{aligned}$$

S3. Ans.(e)



Sol.

Let income of A and B be Rs 5x and Rs 9x respectively

Expenditure of A = Rs $\frac{15}{8}x$

Saving of A = Rs $\frac{25}{8}x$

Saving of B = Rs 5x

ATQ

$$\frac{65}{8}x = 3900$$

$$x = 480$$

required difference = $4x = \text{Rs } 1920$



S4. Ans.(a)

Sol.

Let total work be 40 units (LCM of 10 and 8)

Efficiency of A = 4 units/day

Efficiency of A and B together = 5 units/day

Efficiency of B = 1 units/day

Time taken by B alone to do that work = 40 days

Time taken by C alone = 32 days

S5. Ans.(a)

Sol.

$$\text{Side of the square} = \frac{\text{diagonal}}{2} = \frac{12\sqrt{2}}{2} = 12 \text{ cm}$$

$$\text{perimeter of the equilateral triangle} = 12 \times 4 = 48 \text{ cm}$$

$$\text{side of equilateral triangle} = 16 \text{ cm}$$

$$\text{so, area of equilateral triangle} = \frac{\sqrt{3}}{4} (\text{side})^2 = 64\sqrt{3} \text{ cm}^2$$

S6. Ans.(b)

Sol.

Let the distance be D km, initial speed be 5x kmph and speed after reduction is 3x kmph.

ATQ

$$\frac{2D}{\left(\frac{D}{5x} + \frac{D}{3x}\right)} = 18.75$$

$$x = 5$$

initial speed = 25 kmph.

S7. Ans.(b)

Sol.

Ratio of their profit sharing

$$A: B: C = 2 \times 12 : 5 \times x : 3 \times (x + 3)$$

Annual profit = Rs. 5400

ATQ,

$$= \frac{24}{24 + 5x + 3x + 9} = \frac{1600}{5400}$$

$$x=6$$

S8. Ans.(a)

Sol.

SP of each article = Rs.1800

ATQ,

$$C.P \text{ of } 1^{\text{st}} \text{ article} = 1800 \times \frac{5}{6} = \text{Rs. } 1500$$

$$C.P \text{ of } 2^{\text{nd}} \text{ article} = 1800 \times \frac{6}{5} = \text{Rs. } 2160$$

$$\text{Required loss} = 3660 - 3600 = \text{Rs. } 60$$

S9. Ans.(e)

Sol. Let quantity of milk and water in the mixture after taken out $\frac{1}{3}$ rd mixture be '30x liters' and '20x liters' respectively.

ATQ,

$$\frac{(30x+20)}{20x} = \frac{5}{2}$$

$$x = 1$$

$$\text{So, required quantity} = 50x \times \frac{3}{2} \\ = 75 \text{ liters.}$$

S10. Ans.(c)

Sol.

$$\text{First number} = \frac{20}{2} = 10$$

$$\text{Second number} = 20$$

$$\text{Sum of three number } 20 \times 3 = 60$$

$$\text{So, third number} = 60 - 10 - 20 = 30$$

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S11. Ans.(d)

Sol.

$$\text{Total employee in Nokia} = 160 \times \frac{100}{40} = 400$$

$$\begin{aligned} \text{Required average} &= \frac{400+260+480+640+520}{5} \\ &= \frac{2300}{5} \\ &= 460 \end{aligned}$$

S12. Ans.(c)

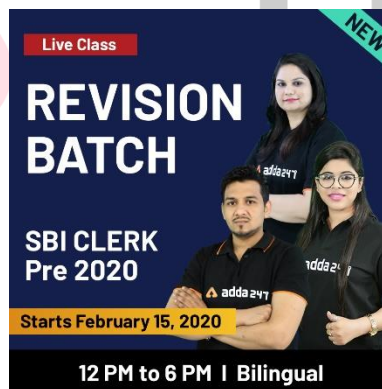
Sol.

$$\text{Required result} = 520 \times \frac{1}{2} - 120 = 140$$

S13. Ans.(b)

Sol.

$$\text{Required percentage} = \frac{60-50}{50} \times 100 = 20\%$$



S14. Ans.(e)

Sol.

$$\text{Number of employees in the Real-me technical department} = 640 \times \frac{40}{100} - 60 = 196$$

$$\text{Number of employees in the Huawei Marketing department} = 520 \times \frac{1}{2} - 120 = 140$$

$$\begin{aligned} \text{Required difference} &= 196 - 140 \\ &= 56 \end{aligned}$$

S15. Ans.(e)

Sol.

Other employee in Samsung = $260 - 50 - 80 = 130$

Other employee in Xiaomi = $480 - 100 - 80 = 300$

Required Ratio = 13 : 30

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