

Quiz Date: 1<sup>st</sup> May 2020

Q1. The distance travelled by a train is 1830 km. The speed of the train (in kmph) is one more than twice the time (in hour) taken to travel the distance (Numerical Value). What will be the respective ratio of the speed of the train and time taken to travel?

- (a) 30 : 61
- (b) 61 : 30
- (c) 25 : 51
- (d) 51 : 25
- (e) 59 : 30

Q2. The compound interest on a sum of money at 5% per annum for 3 years is Rs. 2522. What would be the simple interest on this sum at the same rate and for the same period?

- (a) Rs. 2500
- (b) Rs. 2400
- (c) Rs. 2450
- (d) Rs. 2350
- (e) Rs. 2640

Q3. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 8000 for 2 years at 10% per annum. Find the sum on which simple interest is calculated.

- (a) Rs. 3500
- (b) Rs. 3800
- (c) Rs. 4000
- (d) Rs. 3600
- (e) Rs. 3200

Q4. Alok bought 25 kg of rice at the rate of Rs. 6 per kg and 35 kg of rice at the rate of Rs. 7 per kg. He mixed both type of rice and sold the mixture at the rate of Rs. 6.75 per kg. What was his gain or loss in the transaction ?

- (a) Rs. 16 gain
- (b) Rs. 16 Loss
- (c) Rs. 20 gain
- (d) Rs. 10 gain
- (e) Rs. 10 loss

Q5. In a class 60% of the students pass in Hindi and 45% pass in Sanskrit. If 25% of them pass in both subjects, what percentage of the students fail in both the subjects?

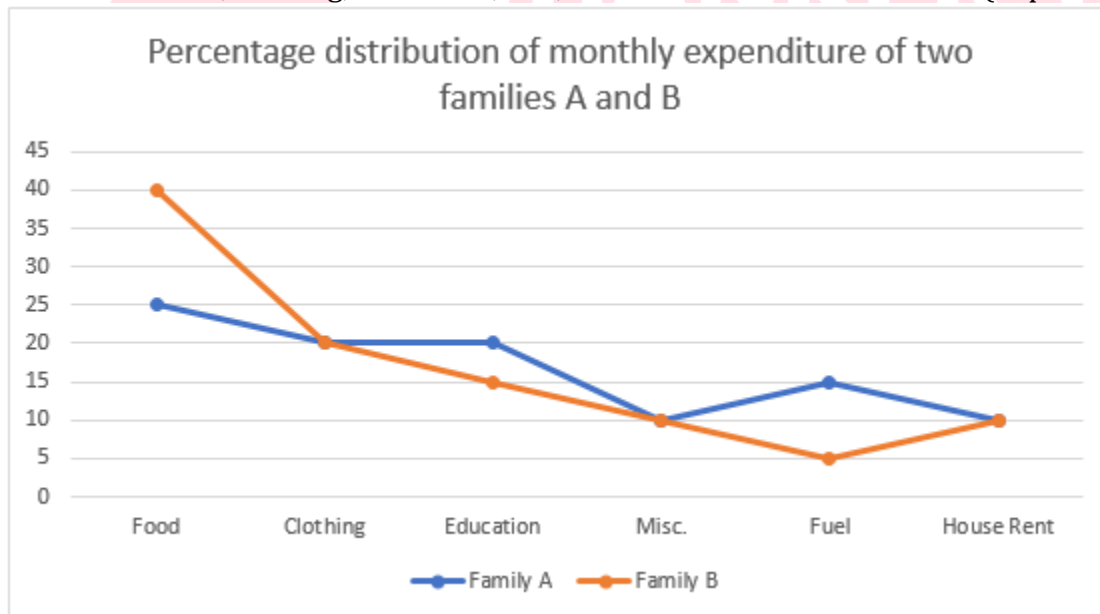
- (a) 80%
- (b) 75%
- (c) 20%
- (d) 25%
- (e) 30%

Q6. The ratio of the number of boys to that of girls in a school is 4 : 1. If 75% of boys and 70% of the girls are scholarship holders, then the percentage of students who do not get scholarship is :

- (a) 50%
- (b) 28%
- (c) 75%
- (d) 26%
- (e) 36%



Directions (7-10): Following bar diagram shows the monthly expenditure of two families i.e. A and B on food, clothing, education, fuel, house rent and miscellaneous (in percentage).



Q7. What fraction of the total expenditure is spent on Education in Family A?

- (a)  $\frac{2}{5}$
- (b)  $\frac{1}{5}$
- (c)  $\frac{3}{5}$
- (d)  $\frac{4}{5}$
- (e)  $\frac{5}{7}$

Q8. If the total annual expenditure of family B is Rs. 10,000 then money spent on clothes during the year is :

- (a) Rs. 200
- (b) Rs. 2000
- (c) Rs. 600
- (d) Rs. 6000
- (e) Rs. 2400

Q9. If the total annual expenditure of family A is Rs. 30,000 then money spend on food, clothes and house rent is:

- (a) Rs. 16,500
- (b) Rs. 18000
- (c) Rs. 21,000
- (d) Rs. 15,000
- (e) Rs. 12,500

Q10. If both the families have the same expenditure, which one spends more on education and miscellaneous together?

- (a) Family A
- (b) Family B
- (c) Both families spend same
- (d) Can't be determined
- (e) None of these

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Q11. Two vessels A and B contains mixture of milk and water in the ratio 8:5 and 5:2 respectively. The ratio in which these two mixtures be mixed to get a new mixture containing  $69\frac{3}{13}\%$  milk is

- (a) 3 : 5
- (b) 5 : 2
- (c) 5 : 7
- (d) 2 : 7
- (e) 2 : 5

Q12. A sells a horse to B for Rs. 4860, thereby losing 19 per cent, B sells it to C at a price which would have given 17 per cent profit to A. Find B's gain.

- (a) Rs. 2160
- (b) Rs. 2610
- (c) Rs. 1260
- (d) Rs. 2260
- (e) Rs. 2450

Directions (13-15): What will come in place of question mark in the following number series?

Q13. 3645, 1215, 405, 135, ?, 15, 5

- (a) 75
- (b) 45

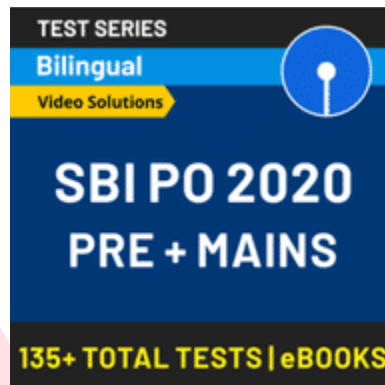
- (c) 65  
 (d) 55  
 (e) 35

Q14. 15, 30, ?, 40, 8, 48

- (a) 10  
 (b) 20  
 (c) 18  
 (d) 12  
 (e) 15

Q15. 5, 13, 58, 357, 2868, ?

- (a) 25823  
 (b) 28695  
 (c) 29548  
 (d) 28545  
 (e) 27695



Solutions

S1. Ans.(b)

Sol.

Let speed of train =  $x$  km/hr

Time taken to travel the distance =  $t$  hr.

$$\therefore x t = 1830 \dots(i)$$

and

$$x = 2t + 1 \dots (ii)$$

from (i) and (ii)

$$t (2t + 1) = 1830$$

$$\Rightarrow 2t^2 + t - 1830 = 0$$

$$\Rightarrow (t - 30) (2t + 61) = 0$$

$$\Rightarrow t = 30 \text{ hr.}$$

$$\therefore \text{Required ratio} = \frac{61}{30}$$

S2. Ans. (b)

Sol.

Let sum = Rs. P

$$\therefore 2522 + P = P \left(1 + \frac{5}{100}\right)^3$$

$$= \frac{9261P}{8000}$$

$$\Rightarrow P = 16,000$$

$$\therefore \text{S.I.} = \frac{16000 \times 5 \times 3}{100}$$

$$= \text{Rs. } 2400$$

S3. Ans.(a)

Sol.

Let sum = Rs. P

ATQ,

$$\frac{P \times 3 \times 8}{100} = \frac{1}{2} \times 8000 \left[ \left(1 + \frac{10}{100}\right)^2 - 1 \right]$$

$$\Rightarrow P = \frac{4,00,000}{24} \times \frac{21}{100}$$

$$\Rightarrow P = \text{Rs. } 3500$$

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S4. Ans.(d)

Sol.

$$\text{Loss or gain in the transaction}$$

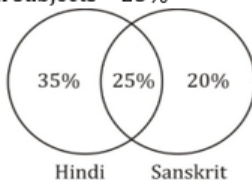
$$= 6.75 \times 60 - (25 \times 6 + 35 \times 7)$$

$$= \text{Rs. } 10 \text{ gain}$$

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S5. Ans.(c)

Sol.

Percentage of students passed in Hindi  
= 60%Percentage of students passed in  
Sanskrit = 45%Percentage of students passed in  
both subjects = 25%

Venn diagrams of passed students

$$\text{Percentage of failed students}$$

$$= 100 - (35 + 25 + 20)$$

$$= 100 - 80 = 20\%$$

S6. Ans.(d)

Sol.

Let the number of boys = 400

Let the number of girls = 100

Total number of students who do not get scholarship

$$= 400 \times \frac{25}{100} + 100 \times \frac{30}{100}$$

$$= 100 + 30 = 130$$

Required percentage

$$= \frac{130}{500} \times 100 = 26\%$$

S7. Ans.(b)

Sol.

$$\text{Required fraction} = \frac{20}{100} = \frac{1}{5}$$

S8. Ans.(b)

Sol.

Monthly expenditure of family B

$$= \frac{10,000}{12}$$

Money spent on Cloth during the year by family B

$$= 12 \times \frac{20}{100} \times \frac{10,000}{12}$$

$$= \text{Rs. } 2000$$

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S9. Ans.(a)

Sol.

Monthly expenditure of family A

$$= \frac{30,000}{12}$$

∴ Required answer

$$= 12 \times \frac{(25 + 20 + 10)}{100} \times \frac{30,000}{12}$$

$$= 16,500$$

S10. Ans.(a)

Sol.

Let both have expenditure of 100

∴ Expenditure of family A on education and miscellaneous together

$$= 20 + 10$$

$$= 30$$

Expenditure of family B on Education and miscellaneous together

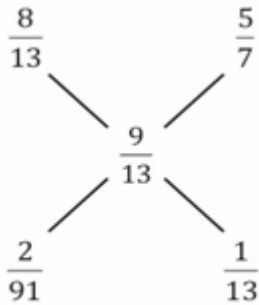
$$= 15 + 10$$

$$= 25$$

Clearly, family A spends more than B.

S11.Ans.(d)

Sol.



Or 2 : 7



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S12.Ans(a)

Sol.

$$\text{C.P. for A} = 4860 \times \frac{100}{(100-19)} = 6000$$

S.P. with 17% profit for A

$$= 6000 \times \frac{(100+17)}{100} = 7020$$

$$\text{B's gain} = 7020 - 4860 = 2160$$

S13. Ans.(b)

Sol.

Pattern is  $\div 3, \div 3, \div 3, \div 3, \div 3$

$$\therefore ? = 135 \div 3$$

$$= 45$$

S14. Ans.(a)

Sol.

Pattern is  $\times 2, \div 3, \times 4, \div 5, \times 6$

$$\therefore ? = 30 \div 3 = 10$$

S15. Ans.(b)

Sol.

Series is

$$5 \times 2 + 3 = 13$$

$$13 \times 4 + 6 = 58$$

$$58 \times 6 + 9 = 357$$

$$357 \times 8 + 12 = 2868$$

$$2868 \times 10 + 15 = 28695$$

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