



Ratio and Proportion Questions for SBI Clerk set-2 pdf

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Instructions

For the following questions answer them individually

Question 1

28% members of a certain group are married. What is the respective ratio between the number of married members to the number of unmarried members ?

- A 7:17
- B 5:18
- C 7:18
- D Cannot be determined
- E None of these

Answer: C

Explanation:

Let total number of members be T.

The number of married number if percent is 28% = .28T

Hence, percent of unmarried members = (100-28)%=72%

And the number = .72T

The ratio of married to unmarried = $\frac{.28}{.72} = \frac{7}{18}$

Question 2

The respective ratio of A and B is 8:7. If the salary of B increases by 20% and the salary of A increases by 21% the new ratio becomes 96: 97 respectively. What is A's salary?

- A 22560
- B 21600
- C 20640
- D 23040
- E Cannot be determined

Answer: E

Explanation:

As we are not given any absolute figures, a unique value of A's salary cannot be determined.

Question 3

M, N, O and P divided Rs 44352 among themselves. M took $\frac{3}{4}$ th of the money, N took $\frac{1}{6}$ th of the remaining amount and rest was divided among O and P in the ratio of 3:4 respectively. How much did O get as his share?

- A Rs.9600
- B Rs. 10600
- C Rs. 4760
- D Rs. 9240
- E Rs. 3960

Answer: E

Explanation:

Amount taken by M = $\frac{3}{4} \times 44352 = \text{Rs } 33264$

Remaining amount = $44352 - 33264 = \text{Rs } 11088$

Amount taken by N = $\frac{1}{6} \times 11088 = \text{Rs } 1848$

Remaining amount = $11088 - 1848 = \text{Rs } 9240$

O gets $\frac{3}{7}$ th share of Rs 9240 $\Rightarrow \frac{3}{7} \times 9240 = \text{Rs } 3960$

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Question 4

At present Anil is 1.5 times Purvi's age. Eight years hence the respective ratio between Anil and Purvi's age then will be 25: 18. What is the Purvi's present age?

- A 50 yr
- B 28 yr
- C 42 yr
- D 36 yr
- E None of these

Answer: B

Explanation:

Since Anil's age is 1.5 times the Purvi's age,

Purvi's age = x

Anil's age = 1.5x

$$\frac{1.5x+8}{x+8} = \frac{25}{18}$$

$$(1.5x+8)18 = 25(x+8)$$

$$27x+144 = 25x+200$$

$$2x = 56$$

$$x = 28$$

Question 5

Mr. X invested a certain amount in Debt and Equity funds in the ratio of 4 : 5 respectively. At the end of one year, he earned a total dividend of 30% on his investment. After one year he reinvested the amount including dividend in the ratio of 6 : 7 in Debt and Equity Funds. If the amount reinvested in Equity Funds was Rs. 94,500/-, what was the original amount invested in Equity Funds?

- A Rs. 75,000
- B Rs. 81,000
- C Rs. 60,000
- D Rs. 65,000
- E None of these

Answer: A

Explanation:

Since the amount reinvested is in the ratio 6:7,

the amount reinvested in equity is $\frac{7}{6+7}$ of total amount.

$$\frac{7}{13}x = 94500$$

$$x = 94500 \times 13/7$$

Since there was a 30% profit on this amount,

$$\text{Original amount} = (94500 \times 13) / (7 \times 1.3) = 135000$$

$$\text{Amount invested in equity} = \frac{5}{5+4} \times 135000 = 75000$$

Question 6

Two types of rice (type 1 and type 2) were mixed in the respective ratio of 1 : 3. The mixture was then sold @ 75.60 per kg to gain a profit of 20%. If the price of type 1 rice is Rs. 75 per kg, what is the price of type 2 price per kg?

A Rs. 55

B Rs. 53

C Rs. 59

D Rs. 57

E Rs. 62

Answer: C

Explanation:

$$\text{Profit} = 0.2 \text{ CP}$$

$$\text{Profit} = \text{SP} - \text{CP}$$

$$1.2\text{CP} = \text{SP}$$

$$\text{Hence, CP} = (\text{SP}/1.2) = 75.6/1.2 = 63$$

Now, let the cost of type 1 rice is T1 and cost of type 2 be T2.

$$63 = \frac{T1 + 3T2}{4}$$
$$= (75 + 3x)/4$$

$$x = 59$$

Therefore, cost of type 2 price is 59.

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Question 7

The respective ratio of two numbers is 16 : 21. If the first number is increased by 30% and the second number is decreased by 20%, what will be the respective ratio of the first and the second number?

A 32 : 21

B 26 : 21

C 25 : 21

D 20 : 21

E 22 : 21

Answer: B

Explanation:

Let the numerator and denominator be x and y.

$$(x/y) = (16/21)$$

Now, if the first number is increased by 30% and the second number is decreased by 20% then the ratio is $\frac{1.3 \times 16}{0.8 \times 21}$

Which equals $\frac{208}{168}$

Which equals $\frac{26}{21}$

Option B is the correct answer.

Question 8

Ravi is older than Simar by 4 years. Four years from now, the respective ratio between Ravi's age and Simar's age will be 9:8. What will be the Ravi's age 15 years ago? (in years)

- A 19
- B 36
- C 17
- D 25
- E 21

Answer: C

Explanation:

Let Ravi's age be x and Simar's be y.

$$x = y + 4$$

After 4 years,

$$(x+4)/(y+4) = 9/8$$

$$8x - 9y = 4$$

After solving we get Ravi's age be 32 years.

15 years before his age is $32 - 15 = 17$ years.

Question 9

Ratio of earnings of A and B is 8 : 9 respectively. If the earnings of A increased by 50% and the earnings of B decrease by 25%, the new ratio of their earnings becomes 16:9 respectively. What are 'A' earnings ?

- A Rs. 37,000
- B Rs. 28,500
- C Rs. 22,000
- D Cannot be determined
- E None of these

Answer: D

Explanation:

Let the earnings of A and B be 8k and 9k respectively.

$$\text{New earnings of A} = 150/100 \times 8k = 12k$$

$$\text{New earnings of B} = 3/4 \times 9k = 6.75k$$

$$\text{So, } 12k : 6.75k = 16 : 9$$

But, from this equation, we cannot determine the value of k.

So, option d) is the correct answer.

Question 10

When a two-digit odd number is divided by a two digit even number, the quotient is 0.625. If the odd is 5 less than the even number, then which of the following will definitely be the ratio of the odd and even numbers respectively ?

- A 5:8
- B 8:5
- C 6:9
- D Cannot be determined
- E None of these

Answer: A

Explanation:

Let the odd number be O and even number be E.

$$\text{Given that } \frac{O}{E} = 0.625 = \frac{625}{1000} = \frac{5}{8}$$

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