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Mixture and Alligation Questions for RBI Asst. Pre, IBPS Clerk Pre and SBI Clerk Pre Exams

Mixture and Alligation Quiz 3

Directions : Read the following questions carefully and choose the right answer.

- A shopkeeper has 85 litre of ghee. A part of this he sells at a gain of 10% and the remaining at a loss of 15%. On the total he loses 5%. What is the quantity sold at a loss of 15%?

A. 56 litres B. 51 litres C. 54 litres D. 55 litres E. 50 litres
- The average weight of the people in a Yoga class is 65 kg and the average weight of people in another class is 70 kg. Find the ratio of number of people in first class to that in second class, if the average weight of people in both the classes is 67 kg.

A. 1 : 2 B. 3 : 2 C. 4 : 5 D. 4 : 3 E. 5 : 3
- Sanjay brought a notebook and a diary for Rs. 50. He sold the notebook at a profit of 10% and diary at a profit of 15%. If his total profit was 12%, find the cost price of diary?

A. Rs. 20 B. Rs. 30 C. Rs. 25 D. Rs. 40 E. Rs. 10
- A tank is full of a mixture of Fanta and Mirinda in which there is 21% fanta. 5 litres of mixture is drawn off and replaced with Mirinda. If the Fanta is now 18%, what is the capacity of the tank?

A. 30 litres B. 42 litres C. 48 litres D. 35 litres E. 45 litres
- Dinesh mixes two types of pulses, which costs him Rs. 50 per kg and Rs. 72 per kg. He gains 25% by selling the mixture at Rs. 65 per kg. Find the ratio in which he mixes the two types of pulses?

A. 5 : 2 B. 10 : 1 C. 7 : 3 D. 12 : 5 E. 8 : 5

6. The ratio of vinegar to Water mixture in jar A and in jar B is 7 : 4 and 4 : 1 respectively. Both the jars are emptied into an empty container C such that the quantity of mixture in C is 72 lit and ratio of vinegar and water is 3 : 1. What was the quantity of mixture in Jar B?
- A. 50 litres B. 64 litres C. 16 litres D. 22 litres E. 45 litres
7. In a school, the average salary of all employees including teacher sand helpers is Rs. 15000. The average salary of teachers is Rs. 20000, while average salary of all helpers is Rs. 9000. Find the number of helpers in the school, if there are 12 teachers.
- A. 11 B. 13 C. 10 D. 12 E. 14
8. Sulphuric acid and water in 2 jars A and B are in the ratio 1 : 5 and 5 : 4 respectively. In what ratio should the content of the two jars be mixed to obtain a mixture of acid and water in the ratio 2 : 7?
- A. 2 : 3 B. 6 : 1 C. 3 : 4 D. 4 : 5 E. 5 : 6
9. A person having Rs. 4620, lent a part of it at 20% SI per annum and the remaining part at 9.5% SI per annum. The total interest earned by him after 2 years was Rs. 1386. Find the sum lent at 20% rate.
- A. Rs. 2420 B. Rs. 2280 C. Rs. 2340 D. Rs. 2620 E. Rs. 2540
10. The ratio of Petrol and Diesel in two vessels of 12 litres and 36 litres is 5 : 1 and 5 : 4 respectively. Both the mixture is mixed in a new vessel. Now find the ratio of Diesel and Petrol in the new vessel?
- A. 3 : 5 B. 4 : 7 C. 2 : 5 D. 5 : 9 E. 1 : 8



Correct Answers:

1	2	3	4	5	6	7	8	9	10
B	B	A	D	B	A	C	B	A	A

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Explanation:

1. A part is sold at 10% gain and the remaining at 15% loss.

By Alligation method,

$$\begin{array}{r} \text{Profit} \qquad \text{Loss} \\ 110\% \qquad 85\% \\ \quad \backslash \quad / \\ \qquad 95\% \\ \quad / \quad \backslash \\ 95 - 85 = 10 \qquad 110 - 95 = 15 \end{array}$$

Ratio = 2 : 3

$$\text{Quantity sold at loss of 15\%} = 85 \times \frac{3}{5} = 51 \text{ litres}$$

Hence, option B is correct.



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2. By alligation method,

$$\begin{array}{r} \text{First class} \qquad \text{Second class} \\ 65 \qquad 70 \\ \quad \backslash \quad / \\ \qquad 67 \\ \quad / \quad \backslash \\ 3 \qquad 2 \end{array}$$

Ratio = 3 : 2

Hence, option B is correct.

3. By allegation method,

Notebook	Diary
10%	15%
\	/
12%	
/	\
3%	2%

Cost price ratio = 3 : 2

$$\text{Cost price of diary} = \frac{50 \times 2}{5} = \text{Rs. } 20$$

Hence, option A is correct.

4. Fanta = 21%

By Alligation method,

Fanta	Pure Mirinda (Fanta = 0%)
21%	0%
\	/
18%	
/	\
18%	3%

Ratio = 6 : 1

Here, 1 in the ratio corresponds to 5 litres

6 will correspond to = $5 \times 6 = 30$ litres

Capacity of the tank = $30 + 5 = 35$ litres

Hence, option D is correct.

5.

$$25\% = \frac{1}{4}$$

$$CP : SP = 4 : 5$$

$$\text{Selling price} = 65$$

5 corresponds to 65

$$4 \text{ corresponds to } = \frac{65 \times 4}{5} = 52$$

By Alligation method,

$$\begin{array}{r} 50 \quad 72 \\ \backslash \quad / \\ 52 \\ / \quad \backslash \\ 20 \quad 2 \end{array}$$



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$$\text{Ratio} = 10 : 1$$

Hence, option B is correct.

6. Vinegar : Water

$$\text{Ratio in jar A} = 7 : 4$$

$$\text{Ratio in jar B} = 4 : 1$$

$$\text{Ratio in jar C} = 3 : 1$$

By alligation method,

Taking the water content,

$$\begin{array}{cc} \text{A} & \text{B} \\ 4/11 & 1/5 \\ \backslash & / \\ & 1/4 \\ / & \backslash \\ 1/4 - 1/5 & 4/11 - 1/4 \\ \Rightarrow (5 - 4)/20 & (16 - 11)/44 \end{array}$$

$$\begin{aligned} &\Rightarrow \frac{1}{20} : \frac{5}{44} \\ &\Rightarrow 11 : 25 \end{aligned}$$

Quantity taken from jar B

$$= \frac{25 \times 72}{36} = 50 \text{ litres}$$

Hence, option A is correct.



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7.

$$\begin{array}{cc} \text{Teachers} & \text{helpers} \\ 20000 & 9000 \\ \backslash & / \\ & 15000 \\ / & \backslash \\ 6000 & 5000 \end{array}$$

Ratio = 6 : 5

6 corresponds to 12

$$= 5 \text{ will correspond} = 12 \times \frac{5}{6} = 10$$

Hence, option C is correct.

8. By allegation method, sulphuric acid content is,

$$\begin{array}{ccc} \text{Jar 1} & & \text{Jar 2} \\ 1/6 & & 5/9 \\ & \backslash & / \\ & 2/9 & \\ & / & \backslash \\ 5/9 - 2/9 & & 2/9 - 1/6 \\ = 3/9 & & = 3/54 \end{array}$$

Ratio : 6 : 1

Hence, option B is correct.

9.

$$SI = \frac{PRT}{100}$$

$$1386 = \frac{4620 \times R \times T}{100}$$

$$R = 15\%$$

By allegation method,

$$\begin{array}{ccc} 20\% & & 9.5\% \\ & \backslash & / \\ & 15\% & \\ & / & \backslash \\ 5.5\% & & 5\% \end{array}$$

Ratio = 11 : 10

$$\text{Sum lent at } 20\% = \frac{11 \times 4620}{21} = \text{Rs. } 2420$$

Hence, option A is correct.

10.

$$\text{Petrol in the first vessel} = \frac{12 \times 5}{6} = 10 \text{ L}$$

$$\text{Petrol in the second vessel} = \frac{36 \times 5}{9} = 20 \text{ L}$$

$$\text{Diesel in the first vessel} = \frac{12 \times 1}{6} = 2 \text{ L}$$

$$\text{Diesel in the second vessel} = \frac{36 \times 4}{9} = 16 \text{ L}$$

Total diesel = 18 L

Total Petrol = 30 L

$$\text{Ratio} = \frac{18}{30} = \frac{3}{5}$$

Hence, option A is correct.



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