## **RATIO AND PROPORTION**

# Instructions	
- Each question has four options (A, B, C, D). Choose the correct answer.	
## Questions	
1. The ratio of incomes of A and B is 3:5, and the ratio of their expenditures is 2:3. If A saves 20% his income, what percentage of his income does B save?	of
A) 28%	
B) 30%	
C) 33.33%	
D) 40%	
2. A mixture contains milk and water in the ratio 4:1. If 10 liters of water is added, the ratio becor 2:1. How much milk is in the mixture?	nes
A) 20 liters	
B) 25 liters	
C) 30 liters	
D) 40 liters	
3. The ratio of the number of boys to girls in a class is 5:3. If 4 boys leave and 2 girls join, the ratio becomes 3:2. How many students were initially in the class?	1
A) 124	
B) 132	
C) 140	
D) 112	
4. A sum of money is divided among A, B, and C in the ratio 2:3:5. If C's share is Rs. 1500 more that A's share, what is the total sum?	эn
A) Rs. 3000	
B) Rs. 4500	
C) Rs. 5000	

D) Rs. 7500
5. Two alloys contain copper and zinc in the ratios 3:2 and 4:1, respectively. In what ratio should they be mixed to obtain an alloy with a copper-to-zinc ratio of 7:3?
A) 2:3
B) 1:1
C) 4:1
D) 1:4
6. The ratio of speeds of two trains is 5:4. If the faster train covers 360 km in 3 hours, how much time will the slower train take to cover 320 km?
A) 3.33 hours
B) 3.6 hours
C) 4 hours
D) 4.5 hours
7. A, B, and C have amounts in the ratio 4:5:6. If A gives Rs. 200 to B and B gives Rs. 300 to C, the new ratio becomes 3:4:5. What is the initial amount with A?
A) Rs. 2000
B) Rs. 1000
C) Rs. 1200
D) Rs. 1600
8. A container has two liquids, X and Y, in the ratio 7:3. If 20 liters of the mixture is removed and replaced with 20 liters of liquid Y, the new ratio becomes 7:5. What is the total capacity of the container?
A) 60 liters
B) 75 liters
C) 90 liters
D) 120 liters
9. The ages of three people A, B, and C are in the ratio 2:3:5. After 5 years, their ages will be in the

ratio 5:7:11. What is the current age of A?

B) 12 years	
C) 15 years	
D) 20 years	
	1200 is divided among A, B, and C such that A's share is twice B's, and B's share is nuch does B receive?
A) Rs. 300	
B) Rs. 360	
C) Rs. 450	
D) Rs. 600	
11. The ratio of t	wo numbers is 4:5. If their LCM is 180, what is their HCF?
A) 9	
B) 12	
C) 15	
D) 18	
12. A shop sells to	wo types of rice in the ratio 3:2 by weight. If the price per kg of the first type is Rs. d type is Rs. 50, what is the average price per kg of the mixture?
40 and the secon	
40 and the secon A) Rs. 42	
40 and the secon A) Rs. 42 B) Rs. 44	
40 and the secon A) Rs. 42 B) Rs. 44 C) Rs. 46 D) Rs. 48	nilk to water in a mixture is 5:2. If 14 liters of the mixture is removed and 6 liters of he new ratio becomes 3:2. What was the initial quantity of the mixture?
40 and the secon A) Rs. 42 B) Rs. 44 C) Rs. 46 D) Rs. 48	nilk to water in a mixture is 5:2. If 14 liters of the mixture is removed and 6 liters of he new ratio becomes 3:2. What was the initial quantity of the mixture?
A) Rs. 42 B) Rs. 44 C) Rs. 46 D) Rs. 48  13. The ratio of mwater is added, the	
A) Rs. 42 B) Rs. 44 C) Rs. 46 D) Rs. 48  13. The ratio of mwater is added, the A) 35.5 liters	

14. Three friends invest in a business in the ratio 3:4:5. The total profit is Rs. 4800, and they share it in the same ratio. If the profit is reinvested and the new ratio becomes 4:5:6, what is A's new share?

- A) Rs. 1280
- B) Rs. 1440
- C) Rs. 1600
- D) Rs. 1800