

Ratio, proportions & partnership

Q1. Three friends A, B, and C started a business, each investing Rs. 10,000. After 5 months A withdrew Rs. 3000, B withdrew Rs. 2000 and C invested Rs. 3000 more. At the end of the year, a total profit of Rs. 34,600 was recorded. Find the share of B.

- (a) 9900 (b) 10600 (c) 14100 (d) None of these

Q2. Two numbers are respectively 25% and 60% more than a third number. The ratio of the two numbers is:

- (a) 2:5 (b) 25:52 (c) 32:25 (d) 17:25 (e) None of these

Q3. The ratio of the number of boys and girls in a college is 7 : 8. If the percentage increase in the number of boys and girls be 20% and 25% respectively, what will be the new ratio?

- (a) 8:9 (b) 17:18 (c) 21:22 (d) Cannot be determined (e) None of these

Q4. In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there?

- (a) 50 (b) 100 (c) 150 (d) 200

Q5. 5600 is to be divided into A, B, C, and D in such a way that the ratio of share of A: B is 1: 2, B: C is 3: 1, and C: D is 2: 3. Find the sum of (A and C) and (B and C).

- (a) Rs 2400, Rs 3000 (b) Rs 2000, Rs 3000 (c) Rs 2400, Rs 3200 (d) Rs 2000, Rs 3200

Q6. The ratio of the incomes of Chetan and Dinesh is 3:4. The ratio of their expenditures is 5:7. If each of them saves Rs.200, find the incomes of both?

- (a) Rs.600, Rs.800 (b) Rs.1200, Rs.1600 (c) Rs.1500, Rs.2000 (d) Rs.1800, Rs.2400

Q7. When a sum of money was equally distributed among 49 children, each child received Rs. 20. If the same amount is equally distributed among children, such that each child gets Rs. 3.5, find the number of children.

- (a) 240 (b) 245 (c) 246 (d) 280

Q8. Find the ratio of the diagonal of a square of side 30 cm, to its side.

- (a) $\sqrt{2}$: 3 (b) $\sqrt{3}$: 4 (c) 1 : $\sqrt{2}$ (d) $\sqrt{2}$: 1

Q9. The ratio of the first and second-class fares between the two stations is 6 : 4 and the number of passengers traveling by first and second-class is 1 : 30. If Rs. 2100 is collected as fare, what is the amount collected from first class passengers?

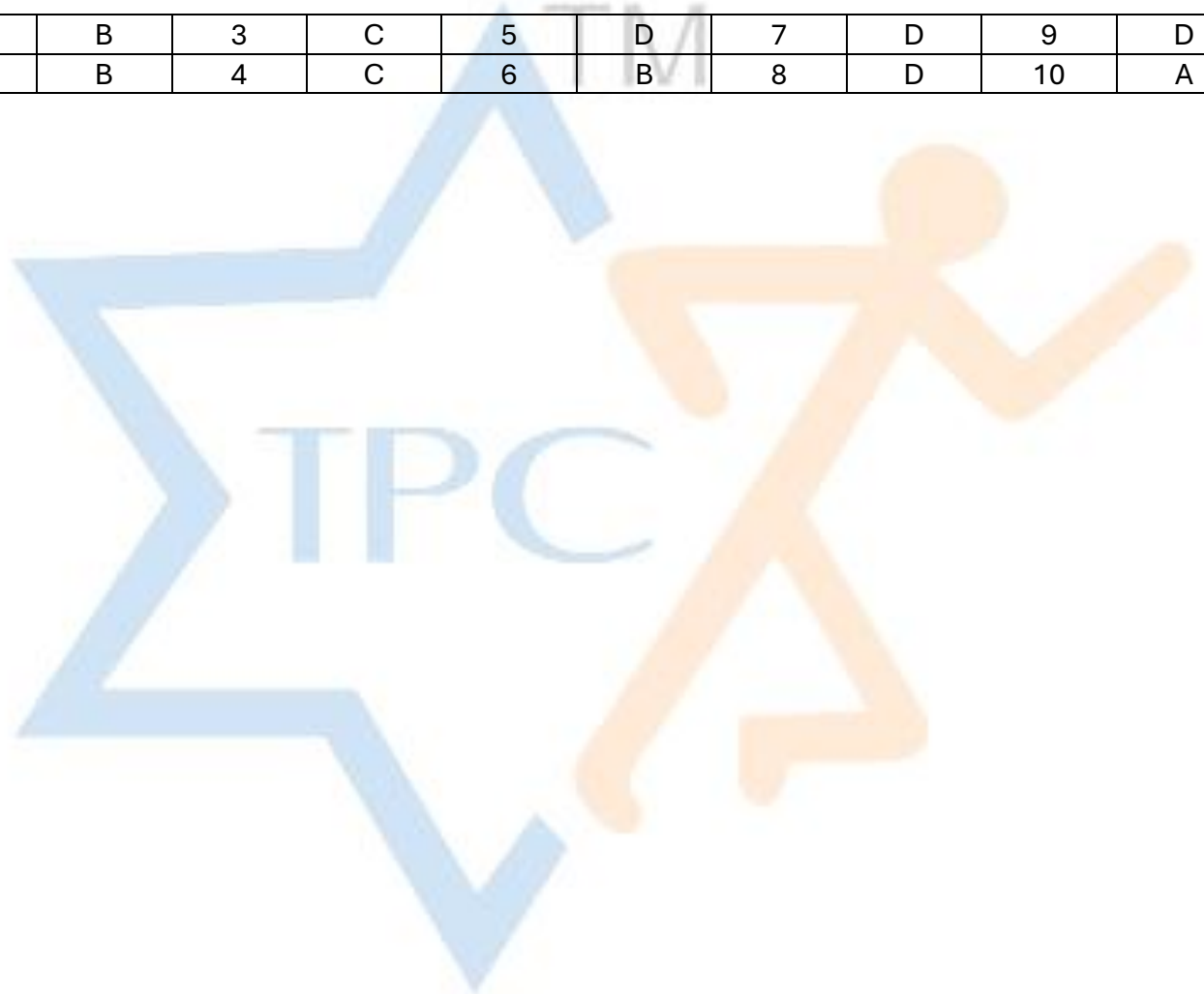
- (a) Rs.250 (b) Rs. 200 (c) Rs. 150 (d) Rs. 100

Q10. Divide Rs. 390 among 3 persons A, B and C such that 3 times A's share, 2 times B's share and 4 times C's share are all equal. The shares of A, B and C are respectively

- (a) Rs. 120, Rs. 180, Rs. 90 (b) Rs. 60, Rs. 90, Rs. 45
(c) Rs. 240, Rs. 157, Rs. 90 (d) None of these

Answer key

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



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