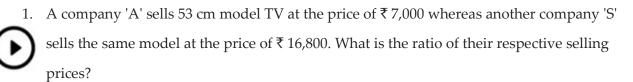


## **Ratio and Proportion**

#### Part 1 - Basic

### **Model 1: Basic Ratio and Proportion**



- 1) 12:5
- 2) 5:12
- 3) 1:2
- 4) 2:1
- 5) None of these
- 2. There are 2304 workers in company A and 2816 in company B. What is the ratio of workers in company A to that of B?
  - 1) 7:13
- 2) 13:7
- 3) 9:11
- 4) 11:9
- 5) None of these
- 3. In entrance test, the ratio of applicants to successful students was 21:11. If 1176 students appeared in the test, how many got through it?
- 1) 715
- 2) 616
- 3) 605
- 4) 563
- 5) None of these
- 4. 207 students appeared in an examination out of 276 registered students. Find out the ratio between registered to the appeared students.
  - 1) 12:23
- 2) 23:12
- 3) 9:23
- 4) 23:9
- 5) None of these
- 5. The ratio of boys and girls studying in a school is 17:18. If the number of boys is 150 less than the number of girls, then what is the total number of girls?
- 1) 2700
- 2) 2800
- 3) 2900
- 4) 2100
- 5) None of these



6.	The ratio of boys to girls in a school is 6:5. The number of boys is more than the number of
	girls by 200. What is the total number of girls in the school?

- 1) 800
- 2) 1000
- 3) 1200
- 4) 2200
- 5) None of these

7. The cost of 3 digital cameras and 5 cell phones is ₹ 35,290. What is the cost of 9 digital



camera and 15 cell phones?

[May 09, 2015 @ 12m 40s]

1) ₹ 1,05,870

2) ₹ 6,46,960

3) ₹ 1,76,450

- 4) Cannot be determined
- 5) None of these
- 8. Twice the square of a number is six times the other number. What is the ratio of the first number to the second?
  - 1) 1:4

2) 2:5

3) 1:3

- 4) cannot be determined
- 5) None of these

# Model 2: Distribution of Amount among the given Persons

9. A profit of ₹ 8000 is to be distributed among A, B and C in the proportions of 5:2:3



respectively. What is the difference between the shares of A and B?

- 1) ₹ 1800
- 2) ₹ 2400
- 3) ₹ 3600
- 4) ₹ 900
- 5) None of these
- 10. A certain amount is to be distributed among Samiksha, Purva and Neha in the proportion of 5:3:4. If the difference between Purva's and Samiksha's share is ₹ 1200. How much did Neha get?
  - 1) ₹ 2400

2) ₹ 1600

3) ₹ 2200

- 4) Cannot be determined
- 5) None of these



### Model 3: Calculation of Total Amount Based on the given Ratio and Difference

11. A sum of money is divided among A, B, C and D ratio 3:5:8:9 respectively. If the share of D is ₹ 1872 more than the share of A, then what is the total amount of money of B & C together?

- 1) ₹ 4156
- 2) ₹ 4165
- 3) ₹ 4056
- 4) ₹ 4065
- 5) None of these
- 12. A sum of money is divided among A, B, C and D in the ratio 5:8:9:11. If the share of B is ₹ 2475 more than the share of A then what is the total amount of money of A & C together?
  - 1) ₹ 9900
- 2) ₹ 11550
- 3) ₹ 10725
- 4) ₹ 9075
- 5) None of these

## Model 4: New Ratio When There Is Absolute Change in the Values

- 13. Amit, Sumit and Vinit divide an amount of ₹ 2800 amongst themselves in the ratio of5:6:3 respectively. If an amount of ₹ 200 is added to each of their shares, what will be the new ratio of their shares of the amount?
  - 1) 8:9:6
- 2) 6:7:4
- 3) 7:8:5
- 4) 4:5:2
- 5) None of these
- 14. A, B and C divide an amount of ₹ 4000 amongst themselves in the ratio of 2:5:1 respectively. If an amount of ₹ 800 is added to each of their shares, what will be the new ratio of their shares of the amount?
  - 1) 18:33:13
- 2) 6:7:4
- 3) 7:8:9
- 4) 3:6:2
- 5) None of these



### Model 5: New Ratio When There Is a Percentage Change in the Values

15. The ratio of the number of students studying in a school A, B and C is 5:6:8. If the number of students studying in each of the schools is increased by 30%, 25% and 25% respectively, what will be the new ratio?

- 1) 14:15:20
- 2) 13:15:20
- 3) 13:14:15
- 4) 15:17:19
- 5) None of these

16. The ratio of length and breadth of a rectangle is 3:2. If the breadth is increased by 20% and the length is increased by 10%, then what will be the new ratio of breadth and length?

- 1) 8:11
- 2) 11:8
- 3) 7:10
- 4) 22:33
- 5) None of these

#### **Model 6: Combined Ratio**

17. Sita and Gita's ages are in the ratio of 3:4, Gita and Lata's ages are in the ratio of 4:7 and Lata and Ram's ages are in the ratio of 7:9. What is the ratio of Sita's and Ram's ages?

- 1) 3:5
- 2) 3:7
- 3) 1:3
- 4) 4:9
- 5) None of these

18. The ratio of income of A and B is 3:5 respectively and C and B is 9:7 respectively. If the difference between the income of A and C is ₹ 4800, what is C's income?

- $\odot$
- 1) ₹ 2700

2) ₹ 9000

3) ₹ 11000

- 4) Cannot be determined
- 5) None of these

19. The ages of A and B are in the ratio of 3:5 and ages of C and D are in the ratio of 7:9. If the age difference between A and C is 24 years, what is the age of A?

[October 04, 2014 @ 28m 30s]

- 1) 20 years
- 2) 35 years
- 3) 17 years
- 4) 24 years
- 5) None of these



- $\odot$
- 20. A sum of ₹817 is divided among A, B and C such that A receives 25% more than B and B receives 25% less than C. What is A's share in the amount?
  - 1) ₹ 228
- 2) ₹ 247
- 3) ₹ 285
- 4) ₹ 304
- 5) None of these
- 21. If  $\frac{1}{4}$ th area of a rectangular plot is 2700 sq m and the width of that plot is 90 m, what is the ratio between the width and the length of the plot?
  - 1) 3:4
- 2) 4:3
- 3) 3:1
- 4) 1:3
- 5) None of these
- 22. The ratio of length and breadth of a rectangular plot is 5:3. If the perimeter of the plot is 96 m, what is its area? [May 09, 2015 @ 14m 40s]
- 1) 450 sq m

2) 360 sq m

3) 540 sq m

4) Data inadequate

5) None of these

#### **Answers**

1 - 2	2 - 3	3 - 2	4 - 5	5 - 1	6 - 2	7 - 1	8 - 4	9 - 2	10 - 1
11 - 3	12 - 2	13 - 2	14 - 1	15 - 2	16 - 1	17 - 3	18 - 2	19 - 5	20 - 3
21 - 1	22 - 3								

**Note:** The date and time mentioned against some questions refer to the doubts clarification session on Quantitative Aptitude in which the question was solved.