

Subject: - Mathematics

PRACTICE PAPER

CBSE-7th

Topic: - RATIO & PROPORTION

- Q1.** If $x:y = 3:5$ find the ratio of $3x + 4y: 8x + 5y$. **Ans.** $\frac{29}{49}$
- Q2.** Two numbers are in the ratio 3: 5. If 8 is added to each no., the ratio becomes 2: 3. Find the numbers. **Ans.** 24, 40
- Q3.** What should be added to each term of the ratio 7: 13 so that the ratio becomes 2: 3. **Ans.** 5
- Q4.** There no.'s are in the ratio of 2: 3: 5 and the sum of these no.'s is 800. Find the no.'s. **Ans.** 160, 240, 400
- Q5.** The sides of a triangle are in the ratio of 1: 2: 3. If the perimeter is 36cm, find its sides. **Ans.** 6cm, 12cm, 18cm
- Q6.** The ratio of monthly income to the savings of a family is 7: 2. If the savings be of Rs.500, find the income and expenditure. **Ans.** Income-1750, Expenditure-1250
- Q7.** Divide Rs.351 into two parts such that one may be to the other as 2: 7. **Ans.** 78, 273
- Q8.** The ratio of zinc and copper in an alloy is 7: 9. If the weight of the copper in the alloy is 11.7kg. Find the weight of the zinc in the alloy. **Ans.** 9.1kg
- Q9.** In the ratio 7: 8, if the consequent is 40, what is the antecedent? **Ans.** 35
- Q10.** Find the ratio of the price of pencil to that of ball pen. If pencils cost Rs.16 per score and ball pens cost Rs.8.40 per dozen. **Ans.** price of pencil : price of ball pen = 8 : 7
- Q11.** In a class, one out of every six students fail. If there are 42 students in the class, how many pass? **Ans.** 35
- Q12.** Fill in blanks: $\frac{12}{20} = \frac{\quad}{5} = \frac{9}{\quad}$ **Ans.** 3, 15
- Q13.** Give two equivalent ratio of 6: 8.
- Q14.** Which ratio is larger (i) 9: 20 or 8: 13 **Ans.** $\frac{8}{13}$
- Q15.** Find x in the following proportions: -
- i) $x : 92 = 87: 116$ **Ans.** $x = 69$
- Q16.** The scale of a map is 1: 4000000. What is the actual distance between the two towns if they are 5cm apart on the map? **Ans.** $x = 200km$
- Q17.** If $a:b = 3: 4$ then $4a : 3b = ?$ **Ans.** 1:1
- Q18.** If $a:b = 4: 5$ and $b:c = 2: 3$ then $a:c = ?$ **Ans.** 8:15
- Q19.** If $2a = 3b = 4c$ then $a:b:c = ?$ **Ans.** 6:4:3
- Q20.** If $\frac{1}{a} : \frac{1}{b} : \frac{1}{c} = 3: 4: 5$ then $a:b:c = ?$ **Ans.** 20:15:12