

Ratio sums for class 6

1. If $p : q = 3 : 4$ and $q : r = 8 : 9$. Find the ratio of $p : q : r$.
2. Two numbers are in the ratio $2 : 3$. If 9 is added to each, they will be in the ratio $3 : 4$. Find the numbers.
- 3) If $a : b = 5 : 14$ and $b : c = 7 : 3$ then find $a : b : c$.
- 4) What must be subtracted from each term of the ratio $3 : 2$ So, that the ratio becomes $2 : 5$?
- 5) If $A : B = 3 : 4$, $B : C = 5 : 6$ and $C : D = 11 : 9$, then find $A : D$.
- 6) $1 : 9 :: 9 : x$. Find the value of x .
- 7) A bag contains Rs. 102 in the form of rupee, 50 paise and 10 paise coins in the ratio $3 : 4 : 10$. Find the number of 10 paise coins.
- 8) Find the missing number $\frac{[]}{45} = \frac{16}{40} = \frac{24}{[]}$.
- 9) $20m : 70m = \text{Rs } 8 : \text{Rs. } \underline{\hspace{2cm}}$
- 10) The greatest ratio among the ratios $2 : 3$, $5 : 8$, $75 : 121$ and $40 : 25$ is
- 11) Out of 30 students in a class, 6 like football, 12 like cricket and remaining like tennis. Find the ratio of
 - (a) Number of students liking football to the number of students liking tennis.
 - (b) Number of students liking cricket to total number of students.
- 12) Find the ratio of 500 mL to 2 litres .
- 13) Cost of a dozen pens is ₹180 and cost of 8 ball pens is ₹56. Find the ratio of the cost of a pen to the cost of a ball pen.
- 14) Divide 20 pens between Sheela and Sangeeta in the ratio of $3 : 2$.
- 15) The earnings of Rohan is 12000 rupees every month and Anish is 191520 per year. If the monthly expenses of every person are around 9960 rupees. Find the ratio of the savings.

- 16) Two numbers are in the ratio 2 : 3. If the sum of numbers is 60, find the numbers.
- 17) A bag has coins of Rs. 1, 50 Paise and 25 Paise in ratio of 5 : 9 : 4. What is the worth of the bag if the total number of coins in the bags is 72?
- 18) Find the value of x, if
(a) 8, x, x, 50 are in proportion.
(b) 36, 90, 90, x are in proportion.
- 19) Green paint is made by mixing blue, yellow and white paints in the ratio 2 : 7 : 1. How much blue paint is needed to make 64 litres of green paint?
- 20) The first, second and fourth terms in a proportion are 32, 112, 217 respectively. Find the third term.

Answers : 1) 6 : 8 : 9 2) 18, 27 3) 5 : 14 : 6 4) $\frac{1}{3}$ 5) $\frac{55}{72}$ 6) 81 7) 170 8) 18, 60 9) 28
10) 40:25 11)(a)1:2 (b)2:5 12)1:4 13)15:7 14)sheela 12, sangeeta 8 15)17:50 16)24, 36
17)42 18)(a) 20 (b)225 19)12.8litres 20)62