

IEM KOLKATA

RATIO AND PROPORTION

Q) Which of the following two ratios is greater 17:18 or 10:11?

Q) Which fraction is the greatest?

$\frac{25}{28}, \frac{53}{59}, \frac{41}{45}, \frac{93}{105}$

Q) The 3rd proportional to 18 and 54 is?

Q) What is 4th proportional in 9, 13 and 153?

Q) Find the mean proportional between 7 and 63?

Q) Which of the following ratios is greatest?

$\frac{38}{77}, \frac{34}{51}, \frac{27}{76}, \frac{31}{72}$

Q) Income ratio of Ramesh and Suresh is 5:6. Their spending ratio is 7:9. Ramesh saves ₹4000 and Suresh saves ₹3000. Income and spending respectively of Ramesh and Suresh are?

Q) Ramesh and Mahesh work in a shop and Ramesh's salary is $\frac{5}{6}$ th of the salary of Mahesh. They spend same money of Rs 2000 and after that save all the money. Find the salary of Ramesh and Mahesh if the ratio of their savings is 4 : 5.

(a) ₹10000, ₹12000 (b) ₹15500, ₹12500 (c) ₹8000, ₹10000 (d) ₹11000, ₹8000

Q) X and Y have their monthly incomes in the ratio 9:7, while their monthly expenditures are in the ratio 5:3. If their monthly savings are ₹16000 & ₹14000 respectively, then the difference in their monthly incomes is:

(a) ₹5500 (b) ₹7500 (c) ₹8000 (d) ₹6000

Q) a:b=3:7 and b:c=9:5. What is a:b:c?

Q) Find A:B:C:D when A:B=2:3, B:C=7:9, C:D=5:7.

Q) If A:B=11:7, B:C=5:19, then A:B:C=?

(a) 55:35:133 (b) 35:55:133 (c) 35:133:55 (d) 55:133:35

Q) Ajay and Raj together have ₹1050. On taking ₹150 from Ajay, Ajay will have same amount as what Raj had earlier. Find the ratio of amounts with Ajay and Raj initially.

- Q) If $x:y=3:4$, then $(7x+3y):(7x-3y)$ is equal to?
- Q) If $a:b=5:7$ and $c:d=2a:3b$, then $ac:bd$ is?
- Q) Three numbers are in the ratio $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}$. The difference between greatest and smallest numbers is 36. Find the numbers.
- Q) The ratio of market prices of wheat and paddy is 2:3 and the ratio of quantities consumed in a family is 5:4. Find the ratio of expenditure of wheat and paddy.
- Q) ₹8400 is divided among A, B, C and D in such a way that the shares of A and B, B and C, and C and D are in the ratios 2:3, 4:5 and 6:7 respectively. The share of A is?
- Q) In a library, the ratio of number of story books to that of non-story books was 4:3 and total number of story books was 1248. When some more story books were bought, the ratio became 5:3. Find the number of story books bought.
- Q) A bag contains 1 rupee, 50 p & 25 p coins are in the ratio 5:6:7. If the total amount is ₹390. Find the number of coins of each kind?
- Q) If x is subtracted from each of 19, 27, 38 & 57, the numbers so obtained are in proportion. Find the value of $(22x + 5)$.
(a) 108 (b) 115 (c) 119 (d) 125
- Q) In a zoo, there are rabbits & pigeons. If heads are counted, there are 340 heads and if legs are counted, there are 1060 legs. How many pigeons are there?
(a) 120 (b) 150 (c) 180 (d) 170
- Q) A dog takes 5 leaps for every 6 leaps of a hare, but 4 leaps of the dog are equal to 5 leaps of the hare. The ratio of the speed of dog and hare is?
(a) 16:24 (b) 24:16 (c) 25:24 (d) 24:25
- Q) How to divide 3395 in the ratio of 42:32:23?
- Q) 285 is the summation of 3 numbers. Ratio between 2nd and 3rd numbers is 6:5. Ratio between 1st and 2nd numbers is 3:7. The 3rd number is?
- Q) Ratio of two numbers is 3:8. On adding 5 to both numbers, the ratio becomes 2:5. Which is the smaller number out of the two?
- Q) Price of each article of type P, Q and R is ₹300, ₹180 and ₹120 respectively.

Suresh buys articles of each type in the ratio 3:2:3 in ₹6480. How many articles of type Q did he purchase?