IEM KOLKATA

RATIO AND PROPORTION

Instructor: Akash Bhattacharya

Q1) Which of the following two ratios is greater 17:18 or 10:11?

Q2) Which fraction is the greatest?
$\frac{25}{28}, \frac{53}{59}, \frac{41}{45}, \frac{93}{105}$

Q3) The 3rd proportional to 18 and 54 is?

Q4) What is 4th proportional in 9, 13 and 153?

Q5) Find the mean proportional between 7 and 63?

Q6) Which of the following ratios is greatest?
(a) 38:77 (b) 34:51 (c) 27:76 (d) 31:72

Q7) Ramesh and Mahesh work in a shop and Ramesh's salary is 5/6th 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

Q8) Income ratio of Ramesh and Suresh is 5:6. Their spending ratio is 7:9. Ramesh saves ₹4000 and Suresh saves ₹3000. The spending amount of Ramesh and Suresh are?

(a) ₹21000, ₹27000 (b) ₹12000 , ₹18000 (c) ₹30000 , ₹36000 (d) ₹15000 , ₹21000

Q9) 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

Q10) a:b=3:7 and b:c=9:5. What is a:b:c?

Q11) Find A:B:C:D when A:B=2:3, B:C=7:9, C:D=5:7.

Q12) 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