Problems

- 1) if a:b=2:3 and b:c=3:4, find a:b:c.
- a) 2:3:4 b) 1:2:3 c) 2:4:1 d) 4:5:2 e) none
- 2) if a:b=3:5 and b:c=5:7, find a:b:c.
- a) 2:4:5 b) 3:4:5 c) 3:5:7 d) 1:4:5 e) none
- 3) if a:b=2:3 and b:c=4:5, find a:b:c.
- a) 8:12:15 b) 3:6:9 c) 15:6:4 d) 3:8:1 e) none
- 4) if a:b=3:5 and b:c=6:7, find a:b:c.
- a) 10:4:6 b) 1:5:15 c) 18:30:35 d) 12:6:20 e) none
- 5) if a:b=2:3 b:c=4:5 and c:d=6:7, find a:b:c:d.
- a) 21:13:7:15 b) 6:4:7:2 c) 14:10:7:20 d) 8:24:30:35 e) none
- 6) if a: $b = \frac{3}{4} : \frac{2}{5}$ and b: $c = \frac{2}{3} : \frac{4}{7}$, find a: b: c.
- a) 105:56:24 b) 12:32:55 c) 4:12:15 d) 18:20:32 e) none
- 7) if $\frac{a}{2} = \frac{b}{3} = \frac{c}{4}$, find a: b : c
- a) 1:4:5 b) 31:34:1 c) 2:3:4 d) 3:4:5 e) none
- 8) if 3a = 5b = 7c, find a: b: c
- a) 35:21:15 b) 31:15:35 c) 64:73:11 d) 26:72:4 e) none
- 9) Divide Rs. 700 among A, B and C in the ratio of 4:7:9.
- a) 120, 234, 62 b) 52, 76, 13 c) 140, 245, 315 d) 348, 532, 140 e) none
- 10) Divide Rs. 2040 among A, B and C in the ratio of 8:11:15.
- a)480, 660, 900 b) 230, 511, 72 c) 210, 55, 621 d) 310, 100, 535 e) none

- 11) Divide Rs.4810 among A, B and C in the ratio of 6:9:11.
 a) 2452, 6222, 6565 b)1100, 5467, 5114 c) 1110, 1665, 2035 d) 2367,
- 7223, 6325 e) none
- 12) If x : y is 5 : 4, find x + y : x y.
- a) 2:3 b) 4:6 c) 9:1 d) 1:9 e) none
- 13) If x: y is 3:7, find x + 4: y 3.
- a) 3:5 b) 6:5 c) cndb d) e) none
- 14) If x : y is 4 : 5, find 3x + 4y : 5x 3y.
- a) 22:15 b) 15:22 c) 35:25 d) 52:15 e) none
- 15) If x : y is 5 : 4, find $(x^2 y^2)$: $(x^2 + y^2)$.
- a) 40:9 b) 16:8 c) 9:41 d) 15:20 e) none
- 16) The total number of students in a school is 2500. If the number of girls in a school is 1400, then what is the respective ratio of the total number of boys to the total number of girls in the school?
- a) 11:14 b) 14:25 c) 1:2 d) 5:7 e) none
- 17) The total number of students in a school is 31700. If the ratio of bys to the girls in the school is 743:842 respectively. What is the total number of girls in the school?
- a) 14860 b) 16480 c) 15340 d) cnbd e) none
- 18) The salary of Mr. X is 80% of salary of Mr. Y and the salary of Mr. Z is 120% of salary of Mr. X. What is the ratio between the salaries of X. Y and Z respectively?
- a) 4:6:5 b) 4:5:6 c) 16:24:25 d) 16:25:24 d) none
- 19) If the 70% of a number is equal to three-fifth of another number, what is the ratio between 1st number and 2nd number respectively? a) 7:6 b)6:7 c) 3:7 d) 7:3 e) none

- 20) The sum of three numbers is 98. If the ratio of the first to second is 2:3 and that of the second to the third is 5:8, then the second number is:
- a) 20 b) 30 c) 48 d) 58 e) none
- 21) In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 1 : 2 : 3. If there is Rs. 30 in all, how many 5 p coins are there?
- a) 50 b) 100 c) 150 e) 200 e) none
- 22) Pradeep has coins of denomination of Rs 1, 50p and 25 p in the ratio of 12:10:7. The total worth of the coins he has is Rs 75. Find the number of 25 p coins he has.
- a) 48 b) 72 c) 60 d) 56 e) none
- 23) A beggar had 10p 20p and Rs1 coins in the ratio of 10:17:7 respectively at the end of the day. If that day he earned a total of Rs 57, how many 20p coins did he have?
- a)114 b) 171 c) 95 d) 85 e) none
- 24) Ratio of marks obtained by A and B in their exam is 5:7. If 5 times the marks obtained by A is 12 more than thrice the marks obtained by B, find marks of A and B. a) 15 & 21 b) 25 & 50 c) 15 & 21 d) cnbd e) none
- 25) A hostel kitchen has sufficient food for 75 students for a period of 90 days. After 10 days, one third of the students leave the hostel. After another 10 days, 5 students return. From this day on, how many days will the food last? a)100 days b) 45 days c) 90 days d) 10 days e)

- 26) A sum of Rs 53 is divided among A,B and C in such a way that A gets Rs7 more than what B gets and B gets Rs 8 more than what C gets find the ratio of shares?
- a)25:18:10 b)15:20:18 c) 51:11:12 d) 24:33:11 e) none
- 27) The students are in the ratio 2:3:5, if 20 students are increased in each class the ratio changes to 4:5:7. Find the total number in the three classes before the increase?
- a) 309
- c) 100 c)117 d) 202
- none
- 28) The incomes of A and B are in the ratio 3:2 and their expenditures are in the ratio 5:3, if each saves Rs 2000, what are their expenditures? a) Rs 3500, Rs 1400 b) Rs 5000, Rs 1200 c) Rs 2400, Rs 1300 d) cnbd e) None of these
- 29) The salaries of A, B and C are of ratio 2:3:5. If the increments of 15%, 10% and 20% are done to their respective salaries, then find the new ratio of their salaries.
- a) 20:33:60 b) 21:33:60 c)22:33:60 d) 23:33:60 e) none
- 30) A horse takes 3 leaps for every 5 leaps of a mare. If one leap of the horse is equal to 3 leaps of the mare, the ratio of the speed of the horse to that of the mare is
- a) 4:5 b) 9:5 c) 8:5 d) 9:2 e) none