5. The sum of a two digit number and the number obtained by reversing the order of the

digits is 121.If the digits differ by 3 find the number.

7. A person invested some amount at the rate of 12% Simple Interest and the remaining at

10 % S.I.He received Rs.130.But if he had interchanged the amounts he would have

received Rs.4 more as interest. How much money did he invest at different rates?

8. There are two class rooms A and B. If 10 students are sent from A to B the number of

students in each room becomes equal. But if 20 students are sent from B to A then the

number of students in A becomes double of the number of students in B.

9. Three times the larger of the two numbers is divided by the smaller one; we get 4 as

quotient and 3 as remainder. Also if seven times the smaller of the number is divided by

the larger one, we get 5 as quotient and 1 as remainder. Find the two numbers.

11. A chemist has one solution of 50% acid and a second which is 25% acid. How much of each

should be mixed to get 10 liters of a 40% solution.

12. A railway half ticket costs half of the full base fare but the reservation charges are same of

a half ticket as on a full ticket. One reserved an A.C.full ticket from Chennai to Mumbai

which cost him Rs2125.Another reserved an AC full ticket as well a half ticket from

Chennai to Mumbai which cost him Rs3200.Find the base fare for the full ticket and also

the reservation charge.

6. If 1 is added to each of the numerator and denominator of a fraction, it becomes $\frac{2}{3}.$ However if 1 is subtracted from each numerator and denominator the fraction becomes $\frac{3}{5}$ .Find the fraction. 4. Two places A and B are 120 km apart on a highway. A car starts from A and another car

starts from B at the same time. If they travel in the same direction they meet in 6 hours

and if they travel in the opposite direction they meet in 1 hour 12 minutes. Find the speed

of the cars