Simultaneous linear equations

Q No. 1. The sum of two numbers is 50 and their difference is 22. Find the numbers.

One number is three times the other number. The difference between the two numbers is 12. Find the two numbers.

The sum of two numbers is 9. The difference in their squares is also 9. Find the number.

The difference between the two numbers is 7. Two times the smaller number added to the larger number gives 22. Find the two numbers.

Q No. 2. 3 tables and 2 chairs cost Rs. 1900 and 2 tables and 4 chairs cost Rs. 1800. Find the cost of table and a chair.

Q No. 3. A lady has only Rs. 1 and Rs.2 coin in her purse. If in all she has 50 coins totaling Rs. 70, Find the number of coins of each type.

I am three times old as my son. After five years, I will be 2 ½ times as old as my son. Find my present age and the present age of my son.

Ten years ago, mother was 12 times as old as her daughter and ten years, hence she will be twice as old as her daughter will be. Find the present ages.

In the triangle, sum of two angles is 90° which is the measure of the third angle. Also, the difference of these 2 angles is 10°, find the measure of these two unknown angles.

A fraction becomes 10/7 if 2 is added to both numerator and denominator. If however 3 is subtracted from both numerator and denominator, the fraction becomes 5/2. What is the fraction?

Answers

Q No. 1. 36, 14
Q No. 2. 18, 6
Q No. 3. 5, 4
Q No. 4. 12, 5
Q No. 5. Rs. 500, Rs. 200
Q No. 6. 30, 20
Q No. 7. 15 years, 45 years
Q No. 8. 34 years, 12 years

Q No. 9.   50°, 40°
Q No. 10. 8/5