



INDIAN SCHOOL DARSAIT

DEPARTMENT OF MATHEMATICS



Subject : MATHEMATICS Topic : Pair of linear equations in two variables Date of Worksheet : 21-05-2017

Resource Person: Mrs. Indu .P

Date of submission : 28-05-2017

Name of the Student: _____ Class & Division: _____ Roll Number : ____

HOT QUESTIONS

1.	Solve $\frac{x}{a} - \frac{y}{b} = a - b$ $ax + by = a^3 + b^3$	4
2.	Solve $(a - b)x + (a+b)y = a^2 - 2ab - b^2$ $(a+b)(x+y) = a^2 + b^2$	4
3.	Solve $px + qy - p + q = 0$ $qx - py - p - q = 0$	4
4.	Solve $99x + 101y = 499$ $101x + 99y = 501$	4
5.	The monthly incomes of A and B are in the ratio 5: 4 and their monthly expenditures are in the ratio 7 : 5. If each saves Rs.3000 per month, find the monthly income of each.	4
6.	On selling a tea – set at 5% loss and a lemon set at 15% gain , a crockery seller gains Rs 7. If he sells the tea – set at 5% gain and the lemon set at 10% gain , he gains Rs.13. Find the actual price of the tea set and the lemon set.	4
7.	Students of a class are made to stand in rows. If one student is extra in a row , there would be 2 rows less. If one student is less in a row there would be 3 rows more. Find the number of students in the class.	4
8.	In a triangle ABC , $\angle C = 3 \angle B = 2(\angle A + \angle B)$. Find the three angles.	4
9.	There are two examination rooms A and B . If 10 candidates are sent from A to B , the number of students in each room is same. If 20 candidates are sent from B to A , the number of students in A is double the number of students in B. Find the number of students in each room.	4
10.	If three times the larger of two numbers is divided by the smaller one , we get 4 as the quotient and 3 as the remainder. Also if 7 times the smaller number is divided by the larger one , we get 5 as the quotient and 1 as the remainder. Find the numbers.	4



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