

SHRINIWASA RAMANUJAN
MATHEMATICS
ACTIVITY BOOK - 01



**LINEAR EQUATION IN
TWO VARIABLES**

MATHEMATICS

**JANATA VIDYALAYA
CITY BR. BALLARPUR,
DT. CHANDRAPUR MH**

20 – 20

GUIDE TEACHER :- Dr. PANKAJ W. MATTE

STUDENT NAME :-

CLASS :-

SECTION :-

ROLL NO.

SUBJECT TEACHER

HEAD MASTER

INDEX

SR. NO .	CHAPTER	NAME OF THE ACTIVITY	OLLOTTED MARKS	OBTAINED MARKS
1.	1. LINEAR EQUATIONS IN TWO VARIABLES	QUE. 1 WRITE EQUATION IN GENERAL FORM QUE NO. 2 ADD/SUBTRACT FOLLOWING EQUATIONS QUE. 3. FIND THE VALUE OF Y BY PUTTING VALUES OF X QUE NO. 4 SOLVE QUE. NO. 5. PUT VALUE, FIND VALUE QUE. NO. 6. SOLVE EQUATIONS QUE. NO. 7. MULTIPLY EQUATIONS BY THE GIVEN NUMBER Que. No. 8 Find the value of Determinant Que. No. 9. PUT VALUE, FIND VALUE	02 03 03 03 04 04 02 04 05	
		TOTAL MARKS	30	

TYPE OF ACTIVITY : INDIVIDUAL

[OBJECTIVES] PARAMETERS

MAXIMUM MARKS	30 MARKS	OBTAINED MARKS	-----
1) EXCELLENT <i>REUSE</i>	(30 Marks)	REMARK	
2) VERY GOOD <i>NEED PRACTICE</i>	(25 TO 29 Marks)		
3) GOOD <i>MORE NEED PRACTICE</i>	(20 TO 28 Marks)		
4) IMPROVE IT <i>MORE NEED PRACTICE</i>	(BELOW 20 Marks)		

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260 प्रश्नावली

2600 प्रश्न

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ACTIVITY – 01 LINEAR EQUATIONS IN TWO VARIABLES**Que. 1 WRITE EQUATION IN GENERAL FORM**

Example	Answers
1) $x - 5 = -y$	
2) $-y + x - 1 = 0$	
3) $x + y = -2y$	
4) $2x - 5 = y$	

Que NO. 2 : Add/Subtract Following Equations

Add
$4x + 3y = 24$
$3x + 4y = 25$

Add
$7m + 13n = 27$
$13m + 7n = 33$

Add
$20a - 15b = -60$
$6a + 15b = 8$

Add
$28x + 6y = 10$
$63x - 6y = 3$

Subtract
$m + n = 24$
$2m - n = 1$

Subtract
$6x + 18y = 39$
$3x + 4y = 25$

Que. 3. Find the value of y by putting values of x

$$x + 3y = 7$$

X	1	4	-2
Y			

x = 1	x = 4	x = -2

Que no. 4 Solve

1. $(4 \times 7) - (3 \times 2)$	=		
2. $(5 \times 2) - [(-2) \times (-3)]$	=		
3. $3 \times 1 - (-2 \times 2)$	=		
4. $(-4) \times 4 - [2 \times (-6)]$	=		
5. $\frac{-4}{7} \times (\frac{-2}{5}) - (\frac{-6}{35}) \times 5$	=		
6. $7 \times 4 - (-1) \times 11$	=		

Que. No. 5. PUT VALUE, FIND VALUE

1. $4m + 3n = 1$ $n = \frac{-1}{3}$	
2. $8m - 9n = 7$ $n = \frac{-1}{3}$	
3. $6a + 15b = 8$ $a = -2$	
4. $4m - 3n = -12$ $m = -2$	

Que. No. 6. Solve Equations

1. $\frac{k}{6} = \frac{1}{3}$			
2. $\frac{k}{8} = \frac{2}{k}$			
3. $\frac{1}{4} = \frac{1}{k}$			
4. $\frac{k}{3} = \frac{2}{1}$			

Que. No. 7.

MULTIPLY EQUATIONS BY THE GIVEN NUMBER

1. $(4m + 3n = 1)$ by 2	
2. $(4a - 3b = -12)$ by 5	
3. $(14a + 3b = 5)$ by 2	
4. $(\frac{a}{3} - \frac{b}{4} = -1)$ by 12	

Que. No. 8 Find the value of Determinant

1.

$$\begin{vmatrix} 4 & 3 \\ 2 & 7 \end{vmatrix} =$$

2.

$$\begin{vmatrix} 3 & -2 \\ 2 & 1 \end{vmatrix} =$$

3.

$$\begin{vmatrix} 3 & -2 \\ 16 & 1 \end{vmatrix} =$$

4.

$$\begin{vmatrix} -4 & 2 \\ -6 & 4 \end{vmatrix} =$$

5.

$$\begin{vmatrix} 1.2 & 0.03 \\ 0.5 & -0.2 \end{vmatrix} =$$

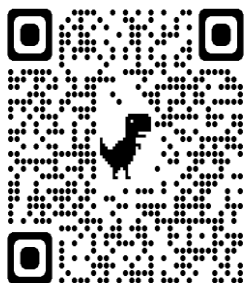
Que. No. 9. PUT VALUE, FIND VALUE

1. $x + y = 13$ find value of x When $y = 5$	
2. $5x + 15y = 115$ find value of x When $y = 5$	
3. $2x + 3y = 620$ find value of y When $x = 85$	
4. $9x + 3y = 1215$ find value of y When $x = 85$	
5. $16a + 24b = 6$ find value of b When $a = \frac{1}{4}$	
6. $36a + 48b = 13$ find value of b When $a = \frac{1}{4}$	

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THANKS