

Mathematics

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(Chapter – 3) (Pair of Linear Equations in two variables) (Exercise 3.1)
(Class X)

Question 1:

Form the pair of linear equations in the following problems, and find their solutions graphically.

(i) 10 students of Class X took part in a Mathematics quiz. If the number of girls is 4 more than the number of boys, find the number of boys and girls who took part in the quiz.

(ii) 5 pencils and 7 pens together cost ₹ 50, whereas 7 pencils and 5 pens together cost ₹ 46. Find the cost of one pencil and that of one pen.

Answer 1:

(i) Let the number of girls = x and let the number of boys = y

Total number of students = 10

Therefore, $x + y = 10$... (1)

According to question, number of girls is 4 more than the number of boys, so, $x = y + 4$... (2)

To represent graphically, three solutions of each equation is needed.

From the equation (1), we get

$$x = 10 - y$$

x	5	4	6
y	5	6	4

From the equation (2), we get

$$x = y + 4$$

x	5	4	3
y	1	0	-1



(ii) Let the cost of one pencil = ₹ x and let the cost of one pen = ₹ y

According to first condition,

$$5x + 7y = 50 \quad \dots (1)$$

According to second condition,

$$7x + 5y = 46 \quad \dots (2)$$

To represent graphically three solutions of each equation is given below,

From the equation (1), we get

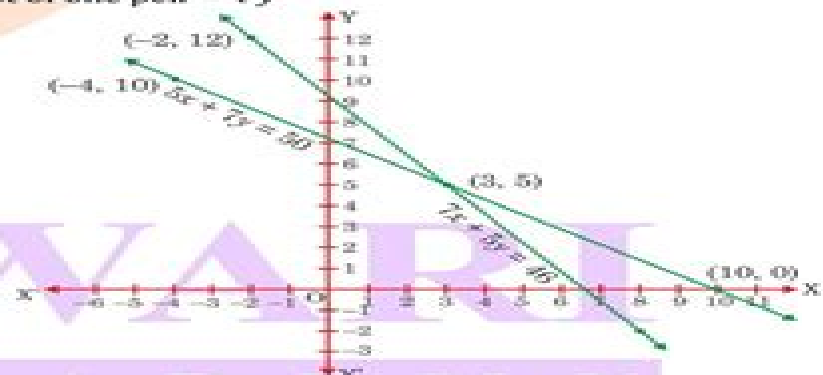
$$x = \frac{50 - 7y}{5}$$

x	3	10	-4
y	5	0	10

From the equation (2), we get

$$x = \frac{46 - 5y}{7}$$

x	8	3	-2
y	-2	5	12



Question 2:

On comparing the ratios $\frac{a_1}{a_2}$, $\frac{b_1}{b_2}$ and $\frac{c_1}{c_2}$, find out whether the lines representing the following pairs of linear equations intersect at a point, are parallel or coincident:

(i) $5x - 4y + 8 = 0$

$7x + 6y - 9 = 0$

(ii) $9x + 3y + 12 = 0$

$18x + 6y + 24 = 0$

(iii) $6x - 3y + 10 = 0$

$2x - y + 9 = 0$

10th Maths Guide

Hunter Calder



10th Maths Guide:

Learning the Alphabet Hunter Calder, 2003 Excel English Early Skills Learning the Alphabet teaches your child to recognise all the letters in the alphabet and breaks it down into three sections. In the book your child will learn the names of all the letters of the alphabet, match each letter to the beginning sounds of words, learn to distinguish between different letters and their sounds, practise writing each letter. The activities in each book are divided into double pages. Each double page allows your child to practice one particular skill many times so that the skill is reinforced. Every page has an extra extension activity to further enrich your child's learning. The books have a clear, easy-to-follow page design with clear explanations to help both parent and child.

Learning Numbers to 20 Bev Dunbar, 2003 Once your child has learned to count and recognise numbers to 10, the next step is to learn numbers to 20. In Excel Maths Early Skills Learning Numbers to 20, your child will revise counting and writing numbers 1 to 9, practise counting, writing and making groups of numbers to 20, learn to match up the correct numerals with various groups of objects. The activities in this book are divided into double pages. Each double page allows your child to practise one particular skill many times so that the skill is reinforced. Every page in this book has an extra extension activity to further enrich your child's learning.

Second Shapes and Measurement Bev Dunbar, 2003 Excel Maths Early Skills Second Shapes and Measurement will further your child's knowledge of a range of different shapes and give them practice in measuring shapes and pictures in different ways. Book 3 in this series, First Shapes and Measurement, introduced your child to these concepts, but this book will develop your child's skills in comparing two or more objects by different features, drawing a range of different shapes and objects, drawing positions, e.g. on top, in, under, putting events in to the correct order, finding paths through mazes. The activities in each book are divided into double pages. Each double page allows your child to practise one particular skill many times so that the skill is reinforced. This also makes it easier for you, the parent, you can help your child with one skill at a time. A clear, easy-to-follow page design has been developed with clear explanations to help both parents and children.

First Shapes and Measurement Bev Dunbar, 2003 Excel Maths Early Skills First Shapes and Measurement introduces your child to a range of different shapes and ways of measuring them. Your child will learn to compare two or more objects by size, shape or position, look at two-dimensional and three-dimensional objects. The activities in this book are divided into double pages. Each double page allows your child to practise one particular skill many times so that the skill is reinforced. Every page has an extra extension activity to further enrich your child's learning.

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will also need to learn some basic sight words to understand the sentences in this book A list of these words is provided at the back of the book To help your child trace over and write letters see our reference page at the back of the book **The American Educational Monthly** ,1872 **Mathematics (Class 10):** TIME, Class Companion Mathematics Class 10 is designed in accordance with the CBSE syllabus It provides supplementary content and learning resources for the school students of higher grades seeking to solve additional problems and thereby succeeding in their academic and competitive pursuits The interactive learning design makes learning enjoyable Inclusion of diverse range of practice exercises from questions that reinforce learning to questions that tickle the analytical mind to improve students problem solving skills The aim of this series is not only to improve performance in regular examinations but also to aid the development of skills needed to crack the competitive examinations An invaluable resource for teachers and students the book will simplify both teaching and learning *Collins International Primary Maths - International Primary Maths Teacher's Guide: Stage 1* Lisa Jarmin,2021-06-07 Collins International Primary Maths supports best practice in primary maths teaching whilst encouraging teacher professionalism and autonomy A wealth of supporting digital assets are provided for every lesson including slideshows tools and games to ensure they are rich lively and engaging **The Children's Buyer's Guide** ,2006 **Post Office Guide** Great Britain. Post Office,1879 **The Educational year book. [5 issues].** ,1879 **Rand McNally Official Guide and Hand Book** ,1892 *White Rose Maths - Edexcel GCSE 9-1 Foundation Student Book 1* Jennifer Clasper,Mary-Kate Connolly,Emily Fox,James Lansdale-Clegg,2024-11-29 Created in partnership with White Rose Education the GCSE Maths textbooks follow on seamlessly from the award winning KS3 White Rose Maths student books Using the White Rose approach to build confidence and deepen understanding Foundation Student Book 1 covers Number Algebra and Ratio Proportion and Rates of Change **The sailor's pocket book** sir Frederick George D. Bedford,1890 **The Australian Mathematics Teacher** ,2003

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