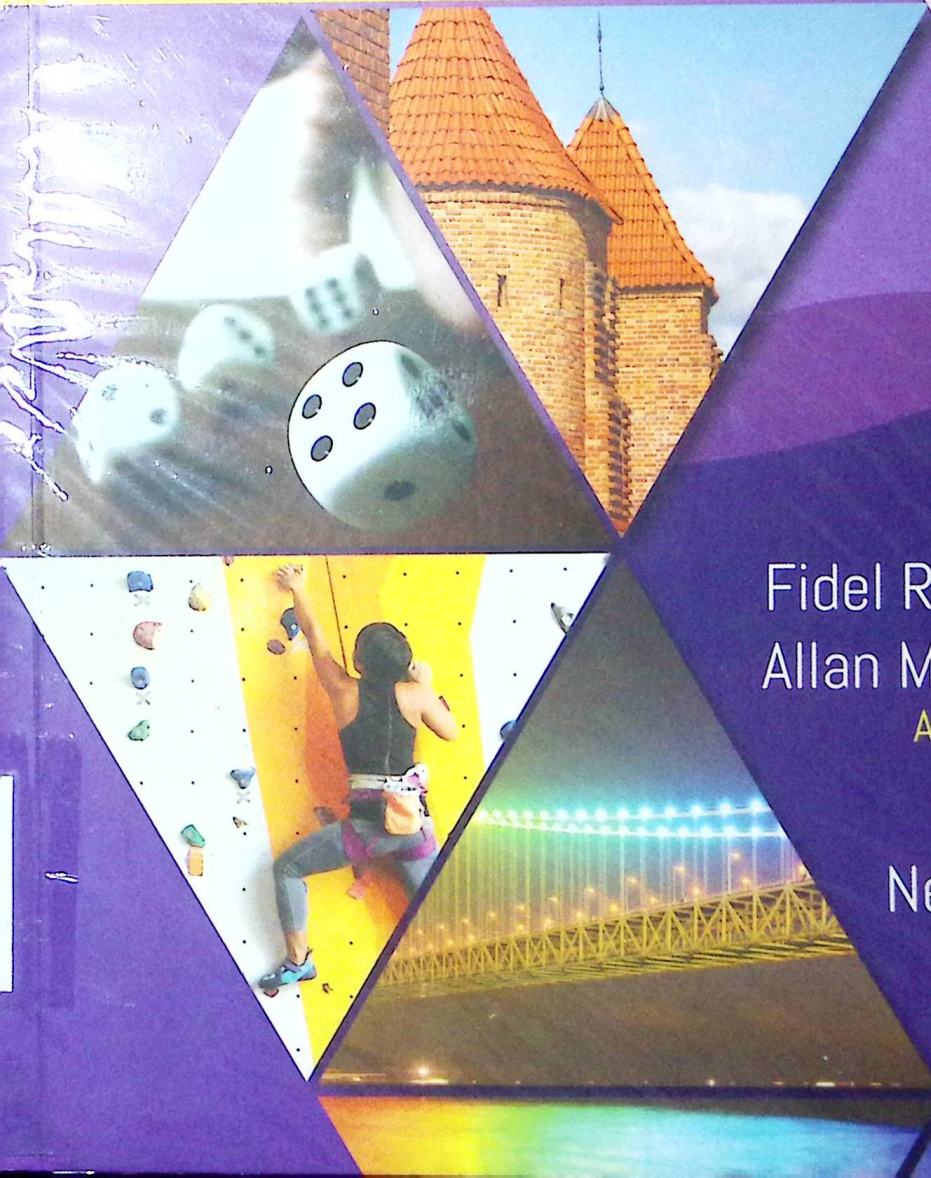


MATH PLUS

Practical Life Uses and Solutions



8



Fidel R. Nemenzo
Allan M. Canonigo
Authors

Nenita C. Ocampo
Editorial Consultant

MATH PLUS

Practical Life Uses and Solutions

8

Fidel R. Nemenzo
Allan M. Canonigo
Authors

Nenita C. Ocampo
Editorial Consultant



C & E Publishing, Inc.
2020



**C & E
Publishing, Inc.**

C & E Publishing, Inc.
was established in 1993,
and is a member of ABAP, PBAI,
NBDB, and PEPA.

Math PLUS (Practical Life Uses and Solutions) 8
Published by C & E Publishing, Inc.
839 EDSA, South Triangle, Quezon City
Tel. No.: (02) 8929-5088
E-mail: info@cebookshop.com

Copyright © 2020 by C & E Publishing, Inc.,
Fidel R. Nemenzo, and Allan M. Canonigo

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means—electronic, mechanical, photocopying, recording, or otherwise—without the prior written permission of the publisher.

Editing: Jose Dante V. Dela Merced
Mark Anthony S. Espisua
Jaymie M. Guillermo

Cover Design: Ruth Anne D. Ellorin

Illustrations: Apolonio Y. Capones Jr.
Ruth Anne D. Ellorin

Layout: Maricar L. Sanchez
Jolly Monique B. Dela Peña
Darwin M. Tolentino

ISBN: 978-971-98-1292-0

Table of Contents

Preface	ix
---------------	----

CHAPTER 1

Algebraic Expressions

Lesson 1-1 The Language of Algebra	2
Lesson 1-2 Polynomials	19
Lesson 1-3 Factoring Polynomials	41
Chapter Assessment	62

CHAPTER 2

Linear Equations and Inequalities in Two Variables

Lesson 2-1 The Cartesian Coordinate System	68
Lesson 2-2 Slopes and Intercepts of Lines	79
Lesson 2-3 Equations of Lines	99
Lesson 2-4 Graphs of Linear Equations and Inequalities in Two Variables	112
Chapter Assessment	126

CHAPTER
3

Systems of Linear Equations and Inequalities

Lesson 3-1 Solving Systems of Linear Equations by Graphing.....	132
Lesson 3-2 Solving Systems of Linear Equations by Substitution and by Elimination	148
Lesson 3-3 Systems of Linear Inequalities and Linear Programming.....	166
Chapter Assessment	183

CHAPTER
4

Rational Expressions

Lesson 4-1 Simplifying Rational Expressions	192
Lesson 4-2 Operations on Rational Expressions.....	201
Chapter Assessment	215

CHAPTER
5

Relations and Functions

Lesson 5-1 Relations in Different Forms	220
Lesson 5-2 Functions	235
Lesson 5-3 Linear Functions.....	251
Chapter Assessment	276



Geometry

Lesson 6-1 Introduction to Logic.....	286
Lesson 6-2 Geometric Proofs and Parallel Lines	303
Lesson 6-3 Congruent Triangles	318
Lesson 6-4 Inequalities and Relationships Within Triangles	350
Chapter Assessment	370



Statistics and Probability

Lesson 7-1 Introduction to Probability	378
Lesson 7-2 The Probability of Simple Events	388
Chapter Assessment	400

About the Author