## INSTRUCTOR'S SOLUTIONS MANUAL

Kelly Halliday Georgian College Ali R. Hassanlou

Kwantlen Polytechnic University

## **Contemporary Business Mathematics with Canadian Applications** Eleventh Canadian Edition

S. A. Hummelbrunner Kelly Halliday K. Suzanne Coombs



Copyright © 2018 Pearson Canada Inc., Toronto, Ontario.

All rights reserved. This work is protected by Canadian copyright laws and is provided solely for the use of instructors in teaching their courses and assessing student learning. Dissemination or sale of any part of this work (including on the Internet) will destroy the integrity of the work and is not permitted. The copyright holder grants permission to instructors who have adopted *Contemporary Business Mathematics with Canadian Applications*, Eleventh Canadian Edition, by S. A. Hummelbrunner, Kelly Halliday and K. Suzanne Coombs to post this material online only if the use of the website is restricted by access codes to students in the instructor's class that is using the textbook and provided the reproduced material bears this copyright notice.

## Contents

PART ONE Mathematics Fundamentals and Business Applications	
Chapter 1: Review of Arithmetic	1
Chapter 2: Review of Basic Algebra	31
Chapter 3: Ratio, Proportion, and Percent	87
Chapter 4: Linear Systems	131
Chapter 5: Cost-Volume-Profit Analysis and Break-Even	187
PART TWO Mathematics of Business and Management	
Chapter 6: Trade Discount, Cash Discount, Markup, and Markdown	217
Chapter 7: Simple Interest	253
Chapter 8: Simple Interest Applications	277
PART THREE Mathematics of Finance and Investment	
Chapter 9: Compound Interest—Future Value and Present Value	319
Chapter 10: Compound Interest—Further Topics	357
Chapter 11: Ordinary Simple Annuities	389
Chapter 12: Ordinary General Annuities	421
Chapter 13: Annuities Due, Deferred Annuities, and Perpetuities	457
Chapter 14: Amortization of Loans, Residential Mortgages, and Sinking Funds	507
Chapter 15: Bond Valuation and Sinking Funds	587
Chapter 16: Investment Decision Applications	625