# MATHEMATICS FOR HEALTH SCIENCES

# STATISTICS FOR HEALTH SCIENCES

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**FIRST EDITION**

SAUNDERS • KUGATHASAN • LEE

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Access Code Inside

## TEXTBOOKS/E-TEXTS

- The two textbooks/e-texts contain 4000+ exercises and 600+ solved examples.
- Provide real-world, Canadian applications of mathematics for health sciences.
- Cover all the concepts found in a foundational math course, but with a motivation and focus rooted firmly in the health sciences.
- Authors have over 60 years of combined teaching experience in mathematics, of which over half of that experience is teaching math for health sciences.
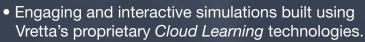
## SOLUTION MANUALS

- Provide students with detailed, step-by-step solutions to odd-numbered questions using various methods.
- Provide instructors with detailed solutions to all questions.

## POWERPOINT PRESENTATIONS

- Help facilitate in-class learning or self-study through animated approaches and step-by-step solved examples.
- PowerPoint handouts available for student note-taking and participation.

## INTERACTIVE LESSONS

- Engaging and interactive simulations built using Vretta's proprietary *Cloud Learning* technologies.
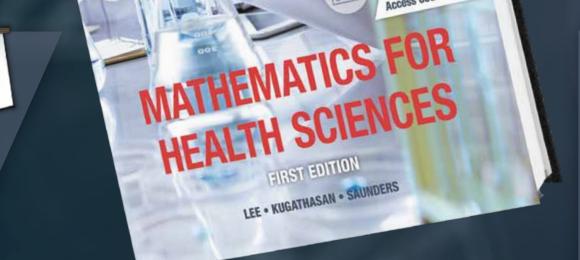- Follow *Assessment for Learning* principles, simplifying concepts for students to visualize, conceptualize, and enjoy mathematics.
- Remediate weaker learners and reinforce concepts for stronger learners.
- Tightly aligned to every topic in the textbook.
- Modular nature allows customization to match specific course outlines and schedules.

## DYNAMIC ASSESSMENTS AND TEST BANK

- Contain rich, comprehensive problems that are algorithmically generated for unlimited practice.
- Provide students with dynamic feedback.
- Fully customizable by professors and course administrators.

## MONITORING PROGRESS AND PERFORMANCE

- Intuitive dashboards and performance panels to monitor overall class or individual student progress and performance on lessons and labs.
- Customizable dashboards available to synchronize or export student grades to other platforms.

# Vretta

# INTROMATH

## CONCEPTS COVERED

### Mathematics for Health Sciences

- **Whole Numbers**
- **Fractions and Decimals**
- **Operations with Exponents and Integers**
- **Basic Algebra**
- **Ratios, Proportions, Percents, and Percent Changes**
- **Units of Measurement**
- **Basic Geometry**
- **Graphs and Systems of Linear Equations**
- **Exponents and Logarithms**
- **Dosage Calculations and Medication Administration**

### Statistics for Health Sciences

- **Introduction to Statistics**
- **Measures of Central Tendency**
- **Measures of Dispersion**
- **Linear Correlation and Regression**
- **Elementary Probability Theory**
- **Discrete Probability Distributions**
- **Continuous Probability Distributions**
- **Sampling Distributions and the Central Limit Theorem**
- **Estimation and Confidence Intervals**
- **Hypothesis Testing**