## CONTENTS

**Preface**  
*page v*

### Chapter 1. **The Four Rules**
- Revision of Addition, Subtraction, Multiplication and Division of Numbers and Quantities  
*page 1*

### 2. **Fractions**
- Revision of Vulgar Fractions  
*page 8*
- Addition and Subtraction of Fractions  
*page 8*
- Multiplication and Division of Fractions  
*page 10*
- Fractions of Quantities  
*page 11*

### 3. **Decimals**
- Revision of Decimals  
*page 22*
- Significant Figures  
*page 23*
- Addition and Subtraction of Decimals  
*page 23*
- Multiplication and Division of Decimals  
*page 24*
- Conversion of Decimals to Vulgar Fractions and vice versa  
*page 25*

### 4. **Averages**
*page 33*

### 5. **Ratio**
*page 37*

### 6. **Proportion**
- Direct Proportion  
*page 46*
- Inverse Proportion  
*page 49*

### 7. **Percentage**
*page 54*
CONTENTS

Chapter 8. Graphs

Statistical Graphs 59
Plotting of Points 59
Continuous or Locus Graphs 61
Conversion Scales 63
Curved Graphs 64

9. Geometry

Scales and Scale Drawing 71
The Diagonal Scale 72

10. Measurement of Areas and Volumes 85

Areas of Plane Surfaces 85
Areas of Surfaces of Solids 89
Volume 96

11. Logarithms

Multiplication and Division by Logarithms 107
Square and Square Root 113

12. Formulae

Evaluation and Transposition 119

13. Trigonometry

Properties of the Right-angled Triangle 129
Complementary Angles 132

14. The Slide Rule

Tables 148–153