

★ TO THE STUDENT ★

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Maths the Write Way, Level 4, was written by Brian E. Enright, Robert Gyles, Maxine Leonescu and Fred I. Remer.

HAWKER BROWNLOW
E D U C A T I O N

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★ TO THE STUDENT ★

To solve maths problems, you usually follow a set of rules. You can probably remember the rules easily, but do you know why the rules were made in the first place? *How* you solve problems is what this program is about. Instead of just finding answers, you will think about the strategies you use to solve problems. You will also discover why rules are important.

The focus of ***Maths the Write Way*** is communication. Writing, speaking, explaining or drawing while learning about maths can help you gain a better understanding of what you are learning. When you share ideas with others, you strengthen what you already know and find out about different ways of thinking. All of these activities will give you a more complete understanding of maths concepts.

You will use the following effective strategies as you complete the activities in ***Maths the Write Way***:

- ★ Write your own problems
- ★ Communicate orally
- ★ Identify key words and explain their importance
- ★ Create your own game, puzzle, picture, poem or rap
- ★ Summarise your work
- ★ Investigate to find other ways to solve a problem
- ★ Make predictions and draw conclusions
- ★ Work with a group to share ideas and solve problems

Each lesson in ***Maths the Write Way*** includes four Investigations, two Extensions and four Assessments. There are many hints to help you solve the problems. Whenever possible, discuss your ideas with classmates and with your teacher. It is important that you think about how you solve a problem, not just about the final solution.

You should be familiar with most of the skills and concepts presented in this book. However, when you work on the activities, you will likely discover ideas that you have not thought about before. We hope you enjoy the program and learn about maths the 'write' way.

Brian E. Enright
Robert Gyles
Maxine Leonescu
Fred I. Remer

★ INVESTIGATION 1 ★

The Caribbean Sea lies between North and South America, with Mexico and Central America to the west. Bordering the Caribbean Sea are several small island nations, territories and other areas.

Step 1: Look at the chart below.

Small Island Nations		
Nation	Area in Square Kilometres	To Nearest Hundred
Antigua/Barbuda	442	400
St. Lucia	616	600
Barbados	429	400
St. Kitts/Nevis	269	300
Dominica	751	800
Grenada	344	300
St. Vincent/ Grenadines	388	400

Step 2: Using the chart, write a general rule that will show how to round any number to the nearest hundred.

Hint: Is each number in the chart rounded up or down? After answering this question, think about how place value is used in rounding.

Solution:

★ INVESTIGATION 2 ★

Some of the Caribbean islands are larger and even closer in size to the countries of Central America.

Step 1: Look at the chart below.

Larger Nations		
Nation	Area in Square Kilometres	To Nearest Thousand
Belize	22,965	23,000
Bahamas	13,939	14,000
El Salvador	21,041	21,000
Jamaica	11,424	11,000
Trinidad/Tobago	5,128	5,000

Step 2: Using the chart, write a general rule that will show how to round any number to the nearest thousand.

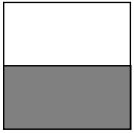
Hint: To explain your rule, it might be helpful to write your own set of numbers. Round these numbers to the nearest thousand to test your rule.

Solution:

Part B

★ INVESTIGATION 3 ★

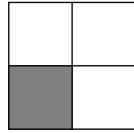
Look carefully at the drawings below.



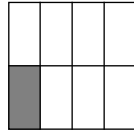
$\frac{1}{2}$



$\frac{1}{3}$



$\frac{1}{4}$



$\frac{1}{8}$

Step 1: Compare each of the shaded parts. Read the fraction with each drawing.

Step 2: Compare the fractions and drawings in as many ways as you can. Write your ideas.

Hint: Think about the size of the shaded part of each square.

Solution:

Step 1: In each circle below, place the symbol that makes the number fact true.

★ INVESTIGATION 4 ★

×

÷

A. $7 \bigcirc 8 = 56$

B. $8 \bigcirc 7 = 56$

C. $56 \bigcirc 7 = 8$

D. $56 \bigcirc 8 = 7$

Step 2: Write an explanation of how you found the answers to items B and C.

Hint: Look at the equals signs in each number sentence. Compare the numbers to the left and right of the equals sign.

Solution:

Step 1: Each scale below is not balanced.