## Preface

The primary a im of MATHS Problem-Solving Strategies Books 1-6 is to help pupils develop their mathematical thinking skills and expand their knowledge of mathematical concepts and formulae. Each book provides ample practice on various routine and practical mathematical problems.

The topicsselected foreach levelare based on the latest sylla bus. Examples of common word problems are given followed by the step-by-step working to show the process of problem solving. In MATHS Problem-Solving Strategies Books 3-6, notes a re included. These notes highlight importa nt a nd releva nt mathematical concepts and formulae.

Challenging problems, which are indicated with asterisks, are also found in each topic. These challenge pupils to master their skill in higher-order thinking. Revision papersprovide an overall assessment of the pupils' progress in leaming these mathematical concepts.

Pupils will find this book useful in preparing for their exa minations.

## Contents

Topic 1: Addition And Subtraction Within 1000 ..... 1
Topic 2: Length ..... 8
Topic 3: Mass ..... 17
Topic 4: Multiplication And Division (Tablesof 2 And 3) ..... 25
Topic 5: Money ..... 32
General Revision 1 ..... 40
General Revision 2 ..... 46
Topic 6: Multiplication And Division (TablesOf 4, 5 And 10) ..... 52
Topic 7: Fractions ..... 60
Topic 8: Time ..... 67
Topic 9: Volume ..... 73
Topic 10: Graphs ..... 82
Topic 11: Geometry ..... 91
Topic 12: Shapes And Pattems ..... 96
General Revision 3 ..... 100
General Revision 4 ..... 106
Answers ..... 113

## Addition And Subtraction Within 1000

## Example 1

Dan had some stamps. He gave 235 stamps to Eric, 149 stamps to Sam and had 162 stamps left. How many stamps did Dan have at first?


Dan had 546 stamps at first.

$$
\begin{array}{r}
12135 \\
149 \\
+\quad 162 \\
\hline 546 \\
\hline
\end{array}
$$

## Example 2

There are 309 boys in a school. There are 246 more girls than boys in the school. How many pupils are there in the school?


$$
309+246=555
$$

$$
\begin{array}{r}
319 \\
+\quad 246 \\
\hline 555 \\
\hline
\end{array}
$$

$$
309+555=864
$$

There are 864 pupils in the school.

$$
\begin{array}{r}
3199 \\
+\quad 555 \\
\hline 864
\end{array}
$$

## PRACTICE

1. There are 397 boys a nd 504 girls in a school. How many pupils are there in the school?
2. Zoe had $\$ 900$. She bought a television set and had $\$ 245$ left. How much did the television set cost?
*3. Shirley had 405 blue beads and 398 red beads. She gave 142 beads to herfriend. How many beads had she left?
3. Benny bought some paper clips. He gave 129 paper clips to Gerald and 294 paper clips to Tom. Benny then had 184 paperclips left. How many paper clips did Benny buy?
4. The difference between two numbers is 302 . If the smaller number is 418 , what is the larger number?
*6. A farmer has 740 chickens and ducks. If he has 257 ducks, how many more chickens than ducks are there?
5. A fishmonger sold 137 fish on Friday, 205 fish on Saturday and 492 fish on Sunday. How many fish did he sell altogether?
6. Peter bought 900 straws. After using some straws to weave a basket, he had 82 straws left. How many straws did he use to weave the basket?

## 5

