

# Preface

The primary aim 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 topics selected for each level are based on the latest syllabus. 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 are included. These notes highlight important and relevant 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 papers provide an overall assessment of the pupils' progress in learning these mathematical concepts.

Pupils will find this book useful in preparing for their examinations.

**Francis Teo**

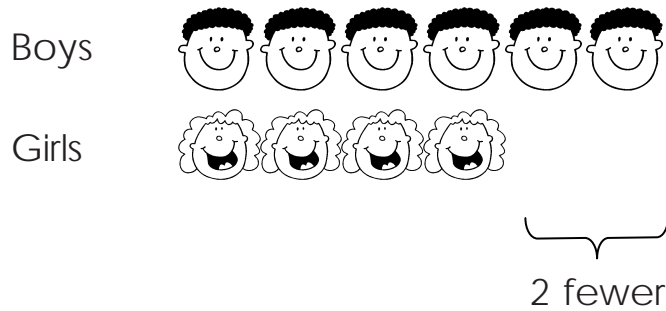
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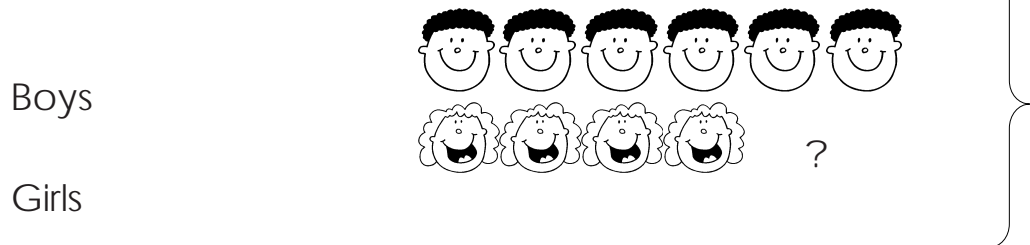
**Example 2**

There are 6 boys at a birthday party. There are 2 fewer girls than boys at the birthday party. How many children are there at the birthday party?



$$6 - 2 = 4$$

There are 4 girls at the birthday party.



$$6 + 4 = 10$$

There are 10 children at the birthday party.



3. There are 5 boys and 4 girls at a playground. How many children are there at the playground?

\*4. David collected 5 seashells. Paul collected 2 more seashells than David. Mary collected 3 more seashells than Paul. How many seashells did Mary collect?

5. Barry had 8 fish. He gave some fish to his friend and had 3 fish left. How many fish did Barry give to his friend?

6. Sandy has 10 pink and red roses. 6 of them are pink roses. How many red roses does she have?