

# CONTENT

---

|                 |  |     |
|-----------------|--|-----|
|                 | <b>Who is this book for?</b> .....                 | 7   |
| <b>Part I</b>   | <b>Organisation of the admission tests</b> .....   | 9   |
| Chapter 1       | How are the competitions organised?.....           | 11  |
| Chapter 2       | Scoring.....                                       | 15  |
| Chapter 3       | Computer-based tests.....                          | 17  |
| <b>Part II</b>  | <b>General methodology</b> .....                   | 25  |
| Chapter 4       | Test principles.....                               | 27  |
| Chapter 5       | The analytical approach.....                       | 31  |
| Chapter 6       | Identifying the rhythms.....                       | 37  |
| Chapter 7       | Alternating sequences.....                         | 43  |
| Chapter 8       | The global approach.....                           | 45  |
| Chapter 9       | Visualising sequences.....                         | 47  |
| Chapter 10      | Diagrams with instructions.....                    | 55  |
| Chapter 11      | Mixed series.....                                  | 63  |
| <b>Part III</b> | <b>Transformations</b> .....                       | 65  |
| Chapter 12      | Modifications to the properties of an element..... | 67  |
| Chapter 13      | Translations.....                                  | 71  |
| Chapter 14      | Rotation.....                                      | 75  |
| Chapter 15      | Symmetry and permutation.....                      | 79  |
| Chapter 16      | Enumeration.....                                   | 85  |
| Chapter 17      | Hidden elements.....                               | 89  |
| <b>Part IV</b>  | <b>Preparing for the test</b> .....                | 95  |
| Chapter 18      | The keys to success.....                           | 97  |
| Chapter 19      | Making the most of each question.....              | 101 |
| Chapter 20      | Taking things further.....                         | 105 |
| <b>Part V</b>   | <b>Tests</b> .....                                 | 111 |
|                 | Test presentation.....                             | 113 |
|                 | Test 1.....  | 115 |
|                 | Test 2.....  | 125 |
|                 | Test 3.....  | 135 |
|                 | Test 4.....  | 145 |

|              |     |
|--------------|-----|
| Test 5 ..... | 155 |
| Test 6 ..... | 165 |
| Test 7 ..... | 175 |
| Test 8 ..... | 185 |
| Test 9 ..... | 195 |

|                |                              |            |
|----------------|------------------------------|------------|
| <b>Part VI</b> | <b>Answers to tests.....</b> | <b>205</b> |
|----------------|------------------------------|------------|

|                 |                                 |            |
|-----------------|---------------------------------|------------|
| <b>Part VII</b> | <b>Explanatory answers.....</b> | <b>213</b> |
|-----------------|---------------------------------|------------|

|              |     |
|--------------|-----|
| Test 1 ..... | 215 |
| Test 2 ..... | 221 |
| Test 3 ..... | 227 |
| Test 4 ..... | 233 |
| Test 5 ..... | 239 |
| Test 6 ..... | 245 |
| Test 7 ..... | 251 |
| Test 8 ..... | 257 |
| Test 9 ..... | 263 |

|                         |            |
|-------------------------|------------|
| <b>Who are we?.....</b> | <b>269</b> |
|-------------------------|------------|