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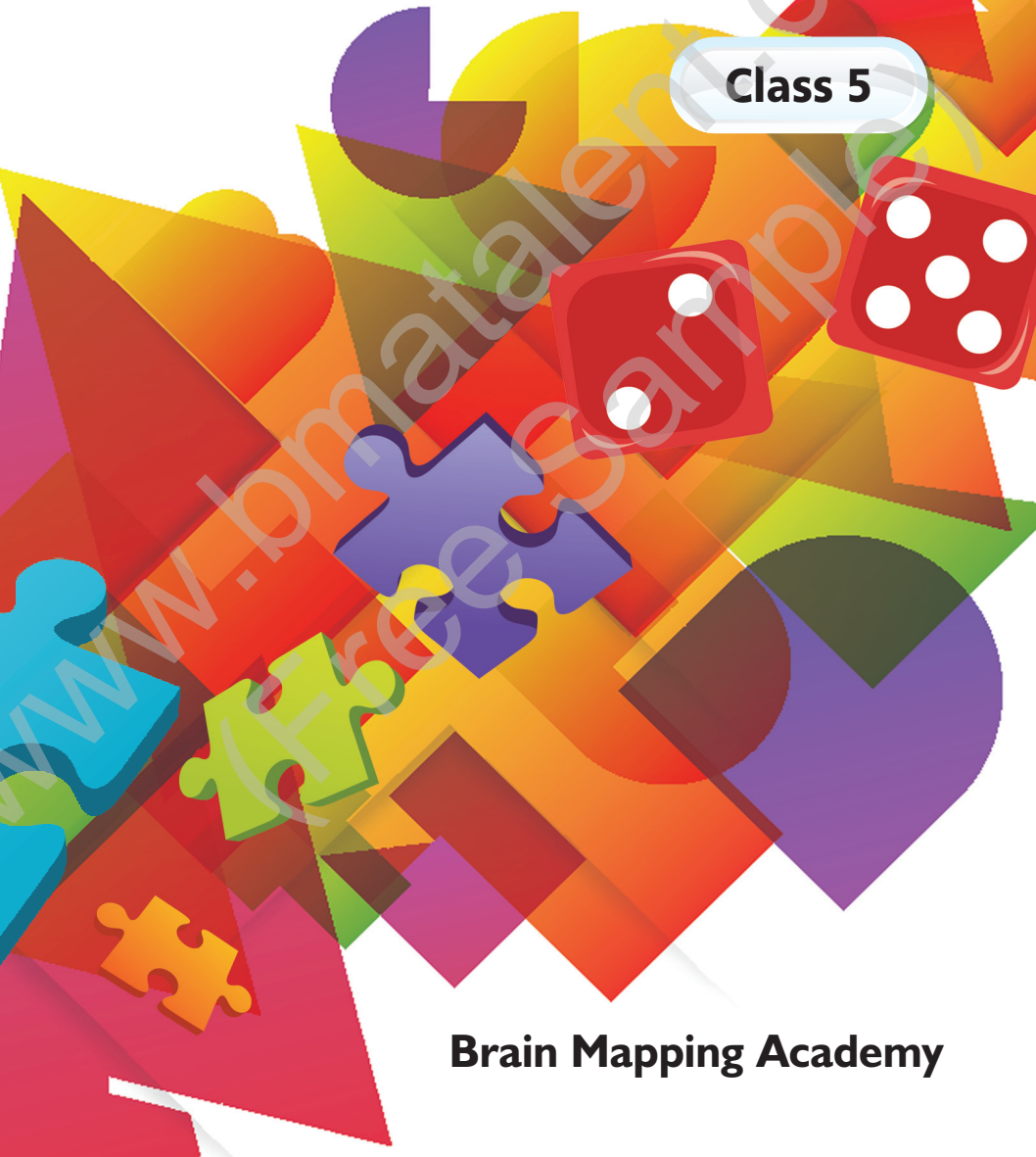
Class 5



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Brain Mapping Academy

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Preface

The process of learning is dependent on one's ability to think logically and reason quickly and effectively. These two factors are hence very crucial to a child's progress in education.

Though some children might show this ability naturally, logical analysis and effective reasoning are skills that can be developed and honed. This book has been specifically designed by experts to cater to this need of students of all classes - for the development of their reasoning and logic skills.

Reasoning and logic skills are an integral part of a wide range of subjects such as Math, Science, Design and Technology, etc. These skills are also vital in our day to day lives.

The questions in this book are styled for standardized tests. The questions on problem solving, critical thinking, judgment and decision making skills equip students to prepare and face any competitive exam where reasoning is an important part.

This book trains the learner's mind to:

- Look at problems with different perspectives through observation, exploration and critical thinking.
- Integrate the application of Math to problem solving.
- Think critically, reason logically and express mathematically.
- Practice, investigate, evaluate and learn with understanding.
- Develop positive attitude towards Mathematics.

With regular practice in solving these questions, the student will feel more confident and better equipped to tackle challenging problems not only in Mathematics examinations but also in real-life situations.

This book is a part of the curriculum designed for Reasoning for classes 1 to 10. It provides a graded pattern of questions with increasing levels of difficulty. It is advised to introduce this book as a part of the curriculum.

The catalyst to boost and sharpen
Logical thinking and reasoning skills.

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Design Framework

All the topics in this book are grouped as under :

VERBAL REASONING

NON-VERBAL REASONING

For each question type, a worked out example shows exactly what the question demands, and explains how to tackle it in three or four clear steps. The approach is systematic and highly effective, lending itself to active learning.

- Each topic is dealt with in a separate unit.
- Each unit begins with a brief explanation of the question types and the procedure to solve them.
- Sufficient Number of examples with clear step-by-step explanation to arrive at the solution
- Ample number of practice questions.

This book contains several interesting and investigative problems with worked out examples and explanations.

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CONTENTS

List of useful symbols

VERBAL REASONING

1. Alphabetical order ..... 11 to 13
2. Find the hidden words ..... 14 to 16
3. Odd one out ..... 17 to 20
4. Matching Pair ..... 21 to 23
5. Series ..... 24 to 27
6. Inserting Numbers ..... 28 to 29
7. Complete the two words ..... 30 to 31
8. Make one word from two ..... 32 to 34
9. Break the codes ..... 35 to 45
10. Ranking Test ..... 46 to 51
11. Mathematical Reasoning ..... 52 to 62

NON-VERBAL REASONING

12. Where is it hidden ..... 63 to 76
13. Counting figures ..... 77 to 80
14. Mirror Images ..... 81 to 98

    Spatial Sense ..... 99 to 104

15. Which one is different ? ..... 105 to 118
16. Analogy ..... 119 to 133
17. What comes next ? ..... 134 to 146

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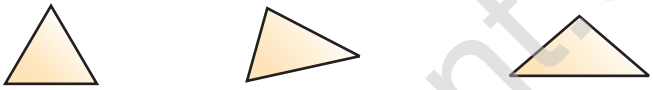
LIST OF SYMBOLS USED IN THIS BOOK

Reasoning questions combine three elements
SHAPES, FILLS & LINES.

SHAPES

These comprise all 'closed' geometrical shapes.

(i) Triangles



Equilateral Scalene Isosceles

(ii) Quadrilaterals

Square Rectangle Trapezium Isosceles Trapezium

Kite Parallelogram Rhombus Arrowhead

(iii) Regular Polygons

Pentagon Hexagon Heptagon Octagon

(iv) Circular Shapes

Circle Semicircle Ellipse Quadrant

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FILLS

'Closed' shape fills comprise four different categories:

(i) Block Fills

Dark Light White

(ii) Shaded Fills

Horizontal Solid Line | Right Slant Solid Line | Vertical Solid Line | Left Slant Solid Line

Horizontal Dashed Line | Right Slant Dashed Line | Vertical Dashed Line | Left Slant Dashed Line

(iii) Cross - Hatched Fills

Squares Lattice

(iv) Liquid Fills

Speckled Mottled

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5 Chapter

SERIES

Example 1

Find the missing pair of letters in the series.

ZA UE PI KM FQ ?

(A) BT (B) AU (C) CY (D) ZX

Answer: (B)

Explanation:

+4 +4 +4 +4 +4

ZA UE PI KM FQ AU

-5 -5 -5 -5 -5

Example 2

Write the number that continues each sequence in the most sensible way.

10 21 12 18 14 15 ?

(A) 16 (B) 12 (C) 10 (D) 18

Answer: (A)

Explanation:

Seen as one sequence, there is no obvious pattern. Try looking at alternate numbers in the sequence, to see if there is a pattern.

−3 −3

10 21 12 18 14 15 16

+2 +2 +2

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TRY THESE

1. X W U T R Q ?

(A) L (B) P (C) O (D) M

2. A Z B Y C X ?

(A) G (B) D (C) E (D) F

3. N O K L H ?

(A) E (B) F (C) D (D) I

4. S E U H W K ?

(A) N (B) Z (C) Y (D) O

5. AZ DX GV JT MR ?

(A) OR (B) OO (C) PP (D) RR

6. FC HG JK LO NS ?

(A) PW (B) WP (C) QX (D) XQ

7. EN FN GM HM ?

(A) LI (B) IL (C) LJ (D) KM

8. ZW XU VS TQ ?

(A) RP (B) PO (C) RO (D) PR

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17. 3 7 4 8 5 ?

(A) 2 (B) 7 (C) 8 (D) 9

18. 15 25 33 43 51 ?

(A) 61 (B) 63 (C) 65 (D) 67

19. 1 2 6 24 120 ?

(A) 620 (B) 680 (C) 700 (D) 720

20. 49 37 27 19 13 ?

(A) 3 (B) 5 (C) 7 (D) 9

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World's First **Reasoning** Curriculum @ Schools

RQ™ REASONING QUOTIENT IS A MUST PREPARE NOW

Reasoning Trainer Plus

This book is a part of the curriculum designed for reasoning for classes 1 to 10.

Reasoning and logic skills are an integral part of a wide range of subjects such as Math, Science, Design and Technology, etc. These skills are also vital in our day to day lives.

Reasoning Trainer caters to fulfill the above requirement.

This book trains the child's mind to :

- *Look at problems with different perspectives through observation, exploration and critical thinking.*
- *Integrate the application of Math to problem solving.*
- *Think critically, reason logically and express mathematically.*
- *Practice, investigate, evaluate and learn with understanding.*
- *Develop positive attitude towards Mathematics.*

This book contains several interesting and investigative problems with worked out examples and explanations.

A concerted effort has been made to make learning of reasoning questions an enjoyable and active experience.

Simple, graded and colourful illustrations make the ideas more child – friendly.

The catalyst to boost and sharpen logical thinking and reasoning skills.

Check this Out!

₹ 50

Detailed solutions for all problems of Reasoning Trainer Plus are available in this book

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