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with Exam-wise &
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**SYLLABUS
COVERED**

Objective Verbal & Non-Verbal Reasoning



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Kindle Edition

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Preface

Welcome to the world of reasoning, where logic and deduction merge to unravel the mysteries behind verbal and non-verbal reasoning. This book '**Objective Verbal & Non-Verbal Reasoning**' is meticulously crafted to serve as a comprehensive guide and an exhaustive question bank for mastering the intricate realms of reasoning.

In today's dynamic and competitive world, the ability to reason effectively stands as a fundamental skill. Whether you're preparing for competitive exams, aiming to enhance your cognitive abilities, or simply seeking to sharpen your logical thinking, this book is designed to be your trusted companion.

The verbal reasoning sections delve into the intricacies of language, testing your ability to decipher complex information, draw inferences, and discern patterns within the context of words and sentences. On the other hand, the non-verbal reasoning sections challenge your visual acumen, spatial awareness, and logical thinking through an assortment of figures, diagrams, and patterns.

Some unique features of this book are:

- **Crisp Revision:** Concepts Review & Mind Maps offer bite-sized and just-in-time revision tools.
- **Extensive Practice:** with More than 2000 Previous year questions from various competitive exams segregated based on difficulty level.
- **Concept Clarity:** Easy to Grasp theory complemented by Solved examples.
- **Expert Tips:** Helps you get expert knowledge to master the Reasoning Ability on your first attempt.
- **Learning Objectives:** Outlines what aspirant should understand or be able to achieve after the course
- **To-the-point theory:** The book provides concise and clear explanations of Verbal & Non-Verbal Reasoning concepts without overwhelming readers with too much information.
- **Quick and easy techniques:** The book offers shortcuts and easy-to-follow techniques to help readers solve typical exam questions quickly and efficiently.

In conclusion, this book aims to provide a one-stop solution for all the aspirants who are preparing for competitive exams.

Our books have always been well received by our readers and this is a testament to our research-oriented approach. Our learning pedagogy supplements our editorial research and makes our book current and relevant. We hope our resources will help students to supplement their examination preparation strategy and help them secure high scores.

We wish our readers great success ahead!

Happy learning!

Team Oswaal

Deciphering Verbal & Non-Verbal Reasoning

In competitive examinations, a balanced proficiency in both verbal and non-verbal reasoning is essential. These tests aim to gauge an individual's overall cognitive aptitude, including analytical skills, logical reasoning, problem-solving abilities, and adaptability to various question formats.

1. Verbal Reasoning:

- **Reading Comprehension:** Understand and analyze passages, extracting key information, and inferring implied meanings.
- **Critical Reasoning:** Evaluate arguments, identify assumptions, draw conclusions, and assess the validity of statements.
- **Syllogisms and Logical Deductions:** Apply logical rules to assess the validity of conclusions drawn from given statements.
- **Analogies and Relationships:** Recognize patterns, similarities, and relationships between words or concepts.
- **Coding-Decoding:** Decipher coded language or symbols based on given patterns or rules.
- **Word Problems:** Solve problems involving verbal statements, equations, and logical deductions.

2. Non-Verbal Reasoning:

- **Spatial Reasoning:** Understand and manipulate shapes, figures, and spatial arrangements.
- **Pattern Recognition:** Identify and continue sequences, analogies, and patterns among shapes, images, or symbols.
- **Classification:** Grouping or categorizing elements based on shared characteristics or rules.
- **Series and Sequences:** Recognize and predict sequences or patterns in non-verbal elements like figures, symbols, or shapes.
- **Mirror and Water Images:** Visualize and understand how objects or shapes appear in mirrors or when reflected in water.
- **Cube and Dice Problems:** Analyze and solve problems based on rotations or arrangements of three-dimensional objects.

3. Strategies for Preparation:

- **Practice Regularly:** Solve a variety of problems regularly to improve speed and accuracy.
- **Understand Concepts:** Grasp the underlying principles and rules governing different types of reasoning problems.
- **Time Management:** Practice time-bound solving to manage the limited time available in exams effectively.
- **Review Mistakes:** Learn from errors to understand the reasoning behind correct solutions.
- **Mock Tests:** Take simulated exams to simulate real test conditions and assess your readiness.

Contd....

4. Effective Techniques:

- **Elimination Method:** Eliminate improbable choices to increase the probability of selecting the correct answer.
- **Backtracking:** Revisit questions if time permits, but avoid excessive dwelling on a single problem.
- **Visualization:** Develop visual methods or mental imagery to tackle non-verbal reasoning problems effectively.
- **Keyword Analysis:** Pay attention to keywords or cues in verbal reasoning questions to derive accurate answers.
- **Relate to Real Life:** Relate problems to real-life scenarios to understand and solve them efficiently.
- Understanding and practicing both verbal and non-verbal reasoning concepts extensively can significantly enhance performance in competitive examinations..

Importance of Verbal & Non-Verbal Reasoning

Verbal and non-verbal reasoning play crucial roles in various competitive examinations by assessing different cognitive abilities:

1. Verbal Reasoning:

- **Critical Thinking:** Verbal reasoning assesses your ability to comprehend and evaluate written information, draw conclusions, and think critically about the presented material.
- **Language Skills:** It evaluates vocabulary, grammar, and reading comprehension, which are fundamental in most competitive exams.
- **Logical Deduction:** Tests often include questions related to syllogisms, logical reasoning, and argument analysis, checking your ability to follow and draw logical conclusions from written information.

2. Non-verbal Reasoning:

- **Visual-Spatial Skills:** This section assesses your ability to understand and analyze visual information, such as patterns, sequences, and relationships between shapes or objects.
- **Abstract Thinking:** Non-verbal reasoning evaluates your capability to recognize and manipulate abstract concepts and patterns.
- **Problem-Solving:** Questions may involve series completion, analogies, classifications, and spatial reasoning, which are crucial for problem-solving skills.

In competitive examinations, both verbal and non-verbal reasoning sections aim to gauge different aspects of intelligence and cognitive abilities. They help examiners assess candidates' logical thinking, problem-solving capabilities, and ability to interpret information accurately, making them significant parts of such assessments. Strong performances in these sections often indicate a candidate's adaptability, quick thinking, and overall intellectual aptitude, which are valued across various professions and academic pursuits.

Tips to Crack Verbal & Non-Verbal Reasoning in the First Attempt

The Reasoning Ability is a crucial section in many competitive exams in India, such as bank exams, UPSC, SSC, CAT, and other MBA entrance exams. Reasoning Ability has a major role in competitive exams in India as it tests essential knowledge and skills required for various fields & evaluates analytical and logical thinking skills. Cracking the Reasoning Ability section of a competitive exam in the first attempt requires hard work, dedication, and a strategic approach. Here are some tips that can help you achieve success in your first attempt:

- 1 Think Right**
Calming yourself and thinking positive is the first and the best course of action that one is required to take. Think and believe that the exam goal is achievable if worked upon smartly.
- 2 Start studying from the beginning**
All the aspirants are aware of how vast, comprehensive and detailed the syllabus of the Reasoning Ability Section is. To crack the exam in the first attempt you have to start preparing for the exam from the beginning of your 12th class. It is only then that you will be able to complete the entire syllabus. Following this approach will also allow you plenty of time to revise.
- 3 Respect the syllabus and arrange the materials accordingly**
While preparing for the Reasoning Ability nothing can be labelled as less important. Questions can come from the most unexpected topics too. Laying down your whole syllabus in front of you will help you to decide on the study material you require.
- 4 Get the right tools and study material**
Gathering and preparing from the appropriate study material is something you cannot be ignorant towards. You can refer to Oswaal 'Objective Verbal & Non-Verbal Reasoning to enhance your preparation. The is on the lines of the current syllabus and can be entrusted upon before the examination.
- 5 Schedule total me for each subject**
Creating a schedule which gives due time to all the subjects is a must. Giving proper time to all the subjects daily will help you cover the syllabus on time, giving you enough time for revision.
- 6 Understand the concepts**
No one can crack the Reasoning Ability exam just by mugging up all the concepts and topics. The syllabus of the exam is in-depth such that you need to understand every concept.
- 7 Practice a lot of Sample Papers**
Oswaal 'Objective Verbal & Non-Verbal Reasoning' will not only help you in understanding the examination pattern, but they will also help you in figuring out the questions that come up every year and this might give you an edge over other students. The includes all the typologies of Questions asked in the Examination, Previous Years Papers with solutions, Mind Maps, etc. Referring to various sample papers might also help you in comprehending the areas which require more work.
- 8 Revise whenever you get me**
Make sure you revise as much as possible. The revision will help you in keeping the concepts fresh in your mind.
- 9 Analysing your performance**
While you are solving papers, make sure you keep a track of time i.e. how much time does it take to solve one section or one question? Make a report of the sections and type of questions which take minimum and maximum time.

Syllabus for major Competitive Examinations

SSC - CHSL (Combined Higher Secondary Level)

A. Verbal Reasoning

1. Number Series
2. Classification
3. Venn Diagrams
4. Problems on Figural Pattern
5. Statements and Arguments
6. Statements and Assumptions
7. Puzzles
8. Coding and Decoding
9. Alphabet Series
10. Analogy
11. Paper folding
12. Syllogism
13. Statements and Conclusions
14. Assertions and Reasoning
15. Seating Arrangements (Circular and Linear)
16. Word building
17. Blood Relations

B. Non-Verbal Reasoning

1. Analogy
2. Pattern Matching
3. Classifications
4. Mirror Images & Reflection
5. Rotations & Symmetry
6. Grouping of Identical Figures
7. Figure Matrix
8. Paper Folding
9. Cube and Dice
10. Water Images
11. Rule Detection
12. Series
13. Embedded Figures

SSC - CGL (Combined Graduate Level)

- Analogies
- Similarities and differences
- Space visualization
- Spatial orientation
- Problem-solving
- Analysis
- Judgment
- Blood Relations
- Decision making
- Visual memory

- Discrimination
- Observation
- Relationship concepts
- Arithmetical reasoning
- Figural classification
- Arithmetic number series
- Non-verbal series
- Coding and decoding
- Statement conclusion
- Syllogistic reasoning

LIC - AAO (Assistant Administrative Officer)	
<ul style="list-style-type: none"> ➤ Puzzles ➤ Seating Arrangements ➤ Direction Sense ➤ Blood Relation ➤ Syllogism ➤ Order and Ranking 	<ul style="list-style-type: none"> ➤ Coding-Decoding ➤ Machine Input-Output ➤ Inequalities ➤ Alpha-Numeric Symbol Series ➤ Data Sufficiency ➤ Logical Reasoning

IBPS PO – Probationary Officer	IBPS – Clerk
<ul style="list-style-type: none"> ➤ Verbal Reasoning ➤ Alphabet Test ➤ Blood Relations ➤ Calendars ➤ Clock Reasoning ➤ Data Sufficiency ➤ Decision Making ➤ Distance & Directions ➤ Input Output ➤ Puzzle ➤ Seating Arrangement ➤ Non-verbal Reasoning ➤ Analogy ➤ Classification ➤ Number Series ➤ Mixed Series ➤ Counting Figures ➤ Mirror Image & Water Image ➤ Cube and Dice 	<ul style="list-style-type: none"> ➤ Verbal Reasoning ➤ Analogy ➤ Classification ➤ Word formation ➤ Statement and conclusions Syllogism ➤ Statement and assumptions ➤ Statement and arguments ➤ Coding-Decoding ➤ Blood Relations ➤ Passage and conclusions ➤ Alphabet test ➤ Series Test ➤ Number, Ranking and time sequence ➤ Direction sense Test ➤ Decision-making test ➤ Figure series ➤ Input/output ➤ Assertion and reasoning ➤ Sitting Arrangement ➤ Non-Verbal Reasoning ➤ Series test ➤ Odd figure Out ➤ Analogy ➤ Miscellaneous Test

Common Admission Test (CAT)
<p>Verbal Ability: Para Jumbles, Summary, Sentence Completion, Odd Sentence Out, Antonyms & Synonyms, Error Detection, Phrase Modifiers, Idioms, Analogies, Cloze Test, Word Usage</p>

Trend Analysis

Chapters	SSC-CHSL	SSC-CGL	IBPO PO	IBPS Clerk	CAT	LIC AAO	RRB	Airforce Group X & Y
A. Verbal Reasoning								
Series Completion	2-4	2-3				3-5	4-6	6-8
Analogy	2-4	2-3	3-5	2-4	1-2		3-5	4-6
Classification	1-3	1-2					2-4	4-6
Coding-Decoding	2-4	2-3	3-5	3-5		2-3	3-5	4-6
Blood Relations	1-3	1-2	3-5	2-4		2-4	2-4	2-4
Puzzles	2-3		5-10	5-10		5-7		
Sequence Output Tracing								
Direction Sense Test	1-2	1-2	3-5	1-3		2-3	1-3	2-4
Logical Venn Diagrams	1-2	1-2						2-4
Alphabet Test		1						
Alpha Numeric								
Ranking and Time Sequence Test		1-2						
Mathematical Operations								
Inserting the Missing Characters								

Contd....

Chapters	SSC-CHSL	SSC-CGL	IBPO PO	IBPS Clerk	CAT	LIC AAO	RRB	Airforce Group X & Y
B. Non-Verbal Reasoning								
Series	2-4	2-3	5-10	3-5	4-5	3-5	4-6	6-8
Analogy	1-2	1-2	3-5	2-4	3-4	2-4	3-5	4-6
Classification	1-2	1	3-5	2-4	3-4	2-3	2-4	4-6
Mirror and Water Images	1-3	2-4	3-5	1-3		2-4	2-4	2-4
Embedded figures	1-2	1		1-3		2-3	2-4	2-4
Completion of Incomplete Pattern	2-4	1	2-3	2-5	2-3		3-5	2-4
Grouping of Identical Figures and Figure matrix		3-5		3-4	1-2		2-4	5
Paper Folding and Cutting	1-3	1-2	2-3	1-3		1-2	1-3	2-4
Cubes and Dice		1						2-4
Dot Situations								



Be mindful. Be grateful. Be positive. Be true. Be kind

01

Three things that make you special

02

Three people you are grateful for and why

03

Three simple things you are grateful for

04

A challenging experience that made you stronger

05

Three ways to inject gratitude into a current challenge

06

Describe the last time you did something nice for someone

07

A fear you have overcome

08

Three activities you enjoy most and why

09

What made you smile today?

10

Three things you love about your family

11

What is your favorite place, and why?

12

Three things you love most about yourself

13

The last time you were overcome with joy

14

A risk you are grateful you took and why

15

Three everyday items you are grateful for

16

Three songs that bring you joy

17

What skill do you have that you are grateful for and why?

18

One luxury you are thankful for

19

Describe a rejection you are grateful for

20

Three things about your body you are grateful for

21

What are you most grateful for in your daily life?

22

Three things you are grateful for about where you live

23

Three items in your home you are grateful for

24

Say thank you to someone

25

Something in nature you are grateful for

26

A person in your past you are grateful for

27

Something at school you're grateful for

28

Describe the last time you laughed so hard you cried

29

What is your proudest accomplishment?

30

Three things you want to manifest

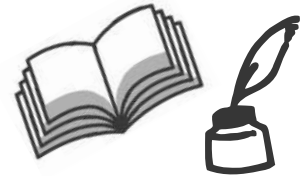
Positive Affirmations

An affirmation is a positive statement or phrase that individuals repeat to themselves with the intention of fostering a positive mindset, self-confidence, or personal development. The practice involves affirming desired beliefs or qualities, often in the present tense, to reinforce a positive self-image and encourage a more optimistic outlook.

“ EMBRACE YOUR UNIQUENESS, NOURISH SELF-CARE, AND PRESS FORWARD RELENTLESSLY. TO ACHIEVE FLIGHT, UNLOAD THE BAGGAGE THAT SLOWS YOUR ASCENT.”



I strongly trust in my vision and work diligently towards making it a reality.



I am capable of learning and growing everyday.



I embrace my mistakes, learn from them and use them to fuel my growth & resilience.

I am not defined by grades & test scores. My true worth lies in my character, compassion and positive impact I have on others.



I celebrate my quirks, for they make me beautifully unique.



My voice matters and I believe in the power of my words to shape the world around me.



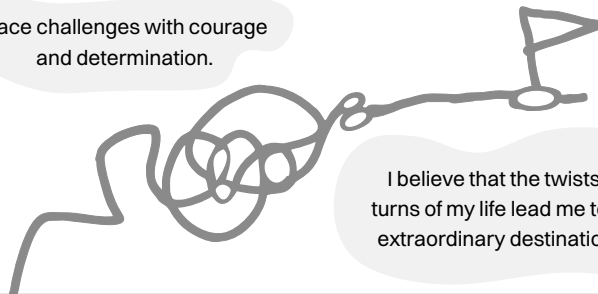
I am not the product of circumstances, I am the product of my own choices.



I face challenges with courage and determination.



I celebrate the achievements of others without diminishing my journey.



I believe that the twists & turns of my life lead me to an extraordinary destinations.

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KOLHAPUR	Granth the Book World, 9922295522,	LUCKNOW	Vyapar Sadan, 7607102462, Om Book Depot, 7705871398, Azad Book Depot Pvt. Ltd., 7317000250, Book Sadan, 9839487327, Rama Book Depot(Retail), 7355078254, Ashinwad Book Depot, 9235501197, Book.com, 7458922755
NAGPUR	Laxmi Pustakalay and Stationers, (0712) 2727354	MEERUT	Ideal Book Depot, (0121) 4059252, 9837066307
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YAVATMAL	Navjeevan Book Stall, 7020525561	DEHRADUN	Inder Book Agencies, 9634045280
	Shri Ganesh Pustakalaya, 9423131275	KOLKATA	WEST BENGAL Oriental Publishers & Distributor (033) 40628367, Katha 'O' Kahini, (033) 22196313, 22419071, Saha Book House, (033), 22193671, 9333416484, United Book House, 9831344622, Bijay Pustak Bhandar, 8961260603
		COOCH BEHAR	S.B. Book Distributor, Cooch behar, 9002670771

WRITING YOUR NOTES

Just in case you have forgotten today, takedown your notes!

But why is it so important?

Tools for the hands are tools for the brain writes Hetty Roessingh.

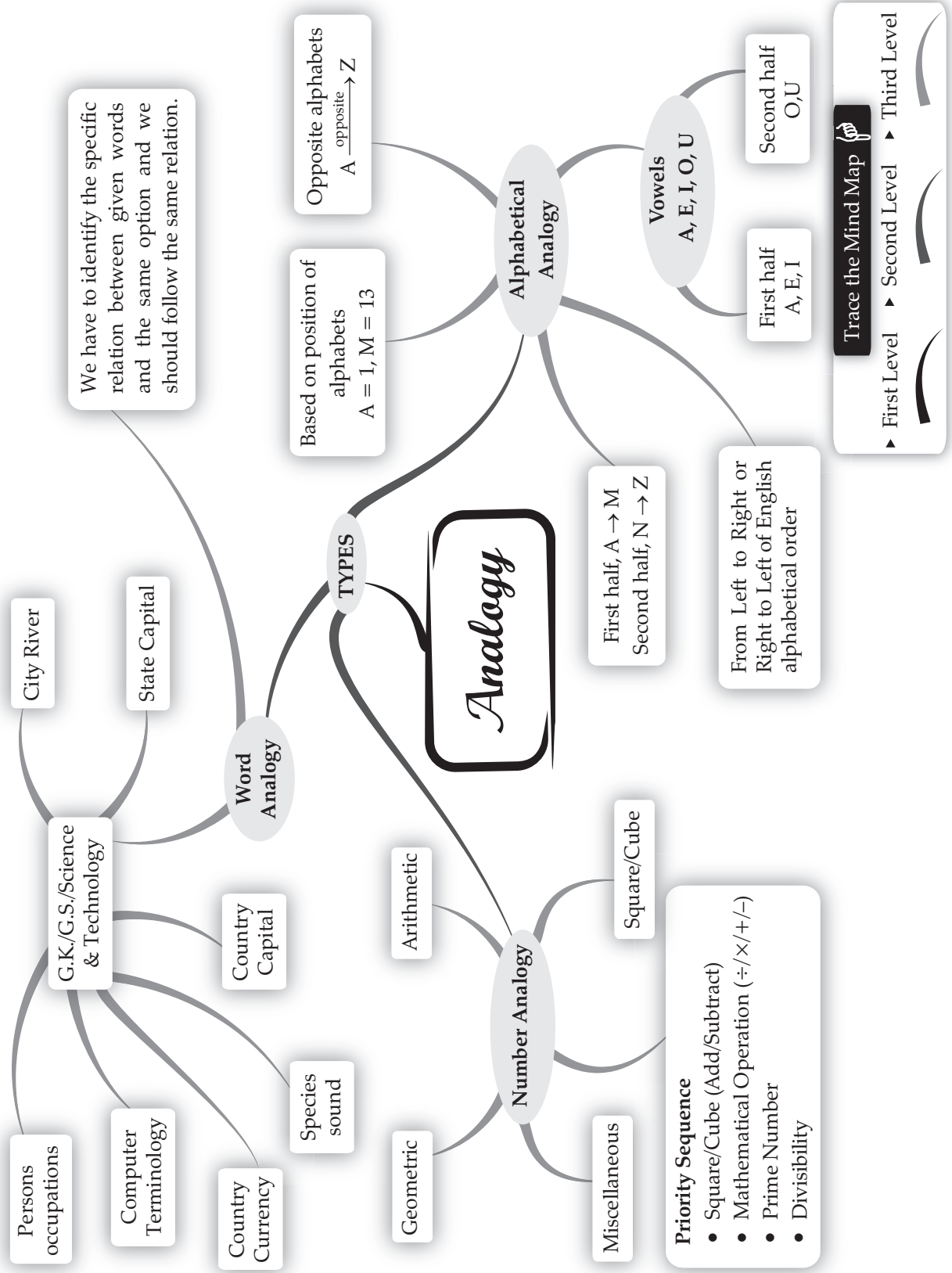
Handwritten notes are a powerful tool for encrypting embodied cognition and in turn supporting the brain's capacity for recuperation of information. If that sounds so scientific then in simple words:

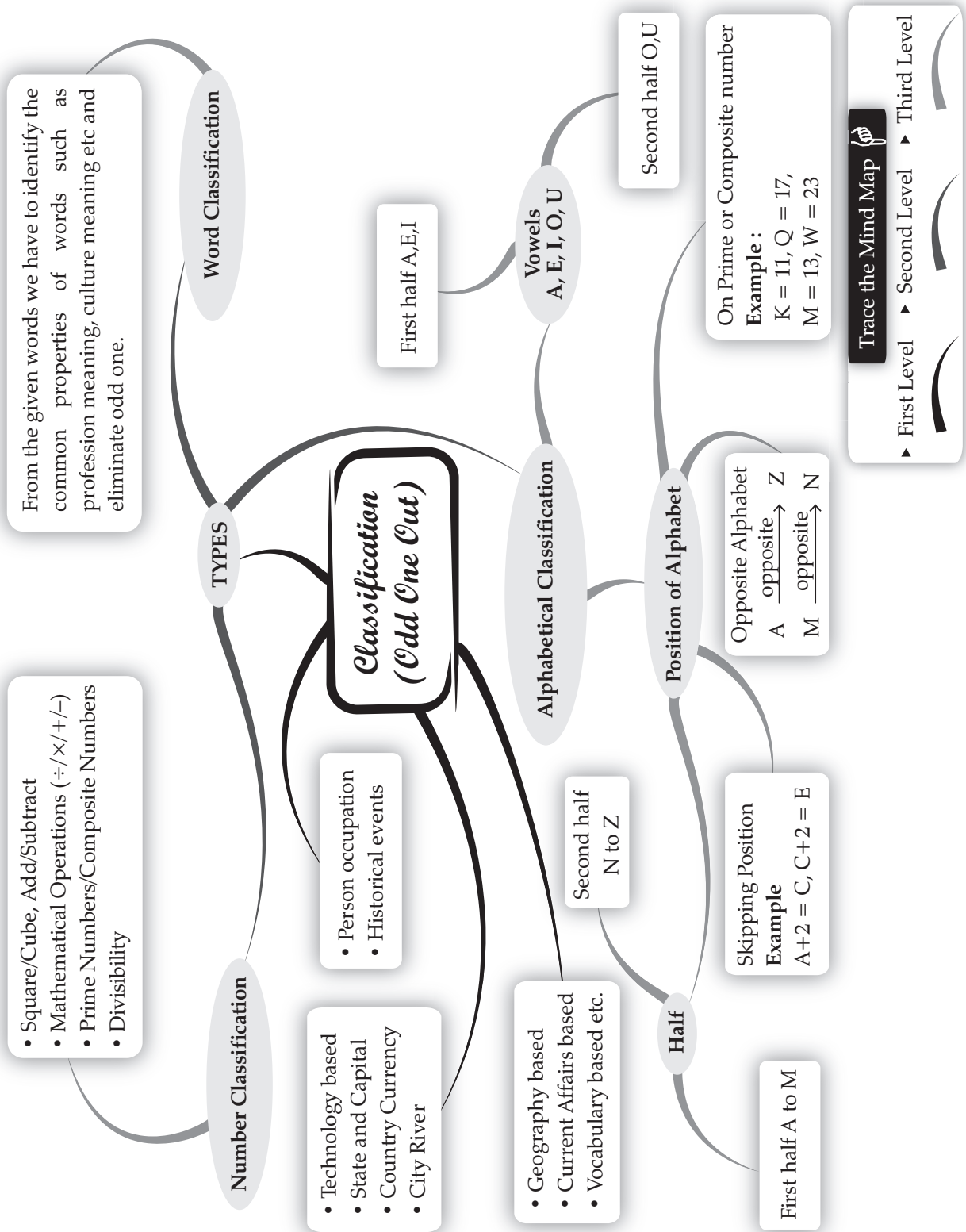
Writing notes by hand help you to:

- ◆ Increasing your comprehension
- ◆ Strengthening your memory
- ◆ Igniting your creativity
- ◆ Engaging your mind
- ◆ Increasing your attention span

Are these reasons enough to get you started?

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Shadow Concept

1. Sunrise- in east then shadow forms towards west.
2. Sunset- in west direction then shadow forms in towards east direction.
3. Morning time - Sunrise
4. Evening time - Sunset
5. At the time of sunrise
 - a. if a man is facing east then his shadow will form towards the west/towards his back.
 - b. If a man is facing the west direction then his shadow will form towards his front/in front of him.
 - c. if a man is facing north direction then his shadow will form towards his left hand/left.
 - d. if a man is facing south direction then his shadow will form towards his right hand/right.
6. At the time of sunset -
 - a. If a man facing towards sun the shadow will be towards his back or in the east.
 - b. If a man facing towards the north the shadow will be towards his right.
 - c. If a man facing towards the east, the shadow will be towards his front.
 - d. If a man facing towards south, the shadow will be towards his left.
7. During 12 pm at noon, there will be no shadow because at that time the rays of the sun are vertically downward.

General Steps to solve question

1. Take reference axis and denote all four directions.
2. Move always from the origin of the reference axis and follow the steps according to questions.
3. Finally draw a line between initial point and final point.

If someone move towards left or right side, we assume that the movement is at an angle of 90 degrees.

Movement & Turn

- A person facing north, on taking left will face towards the west and no taking the right turn towards the east.
- A person facing west, on taking left will face towards the south and on taking right turn towards the north.
- A person facing east, on taking left will face towards the north and on taking the right turn towards the south.
- A person facing south, on taking left will face towards the east and on taking the right turn towards the west.

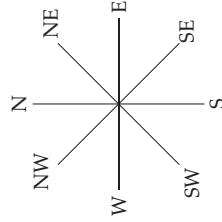
- Moving left means moving anticlockwise
- Moving right means moving clockwise

Type of Questions

1. Based on Turns
2. Based on rotations
3. Based on turns and rotations
4. Based on shadow concept sunrise and sunset
5. Based on finding the shortest distance
6. Based on the orientation of one point to another
7. Based on coding
8. Based on seating arrangement
9. Based on clock timing

Direction and Distance

Representation of Directions



Opposite pair means = 180° difference
 NE - SW ; SW - NE
 NW - SE ; SE - NW

Intermediate Direction

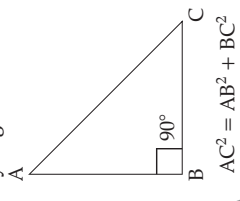
- North-East → NE
- North-West → NW
- South-East → SE
- South-West → SW

Cardinal Direction

- North → N
 - South → S
 - East → E
 - West → W
- Remember - NEWS

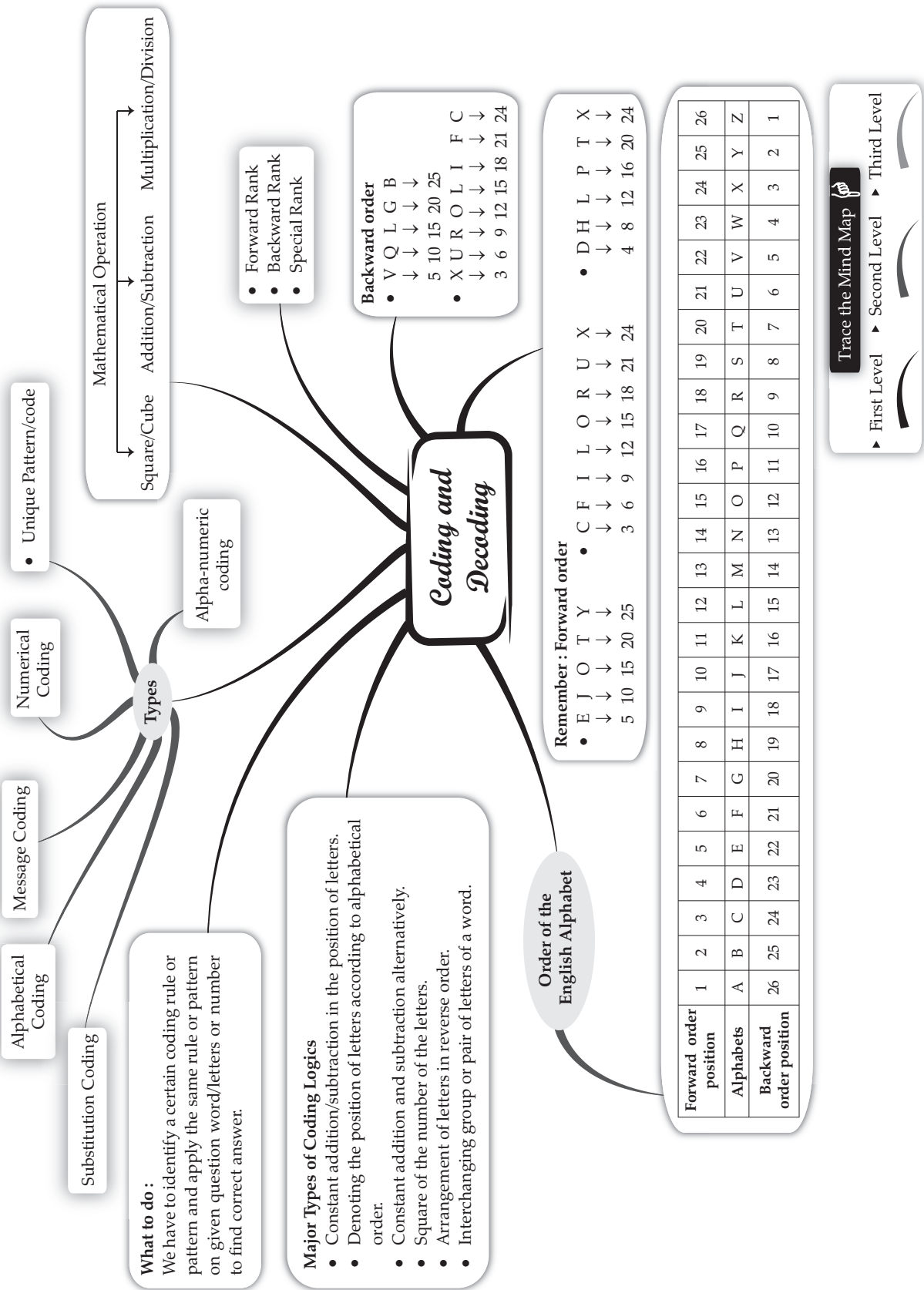
When a person moves left or right side, the movement is 90°.

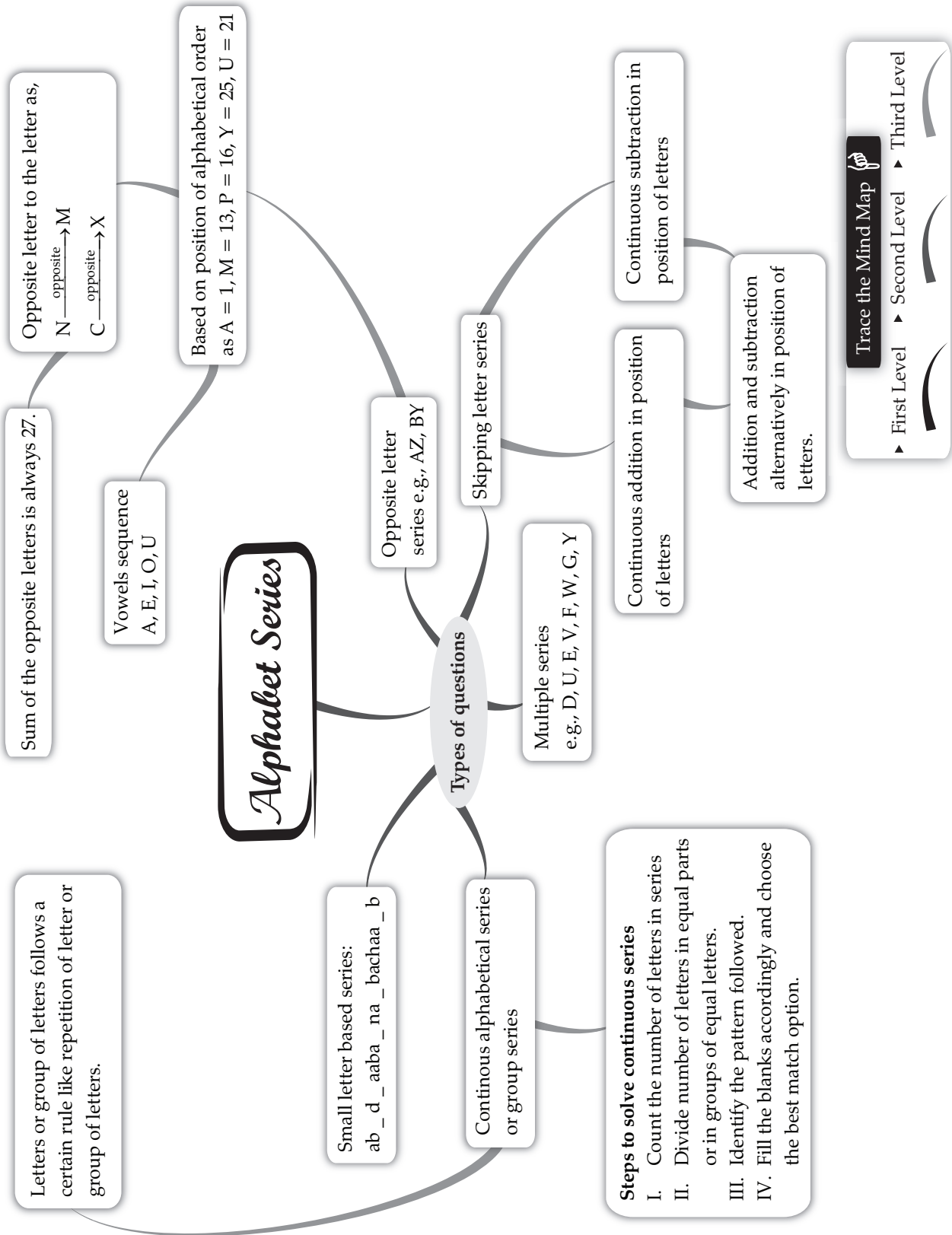
Pythagoras Theorem

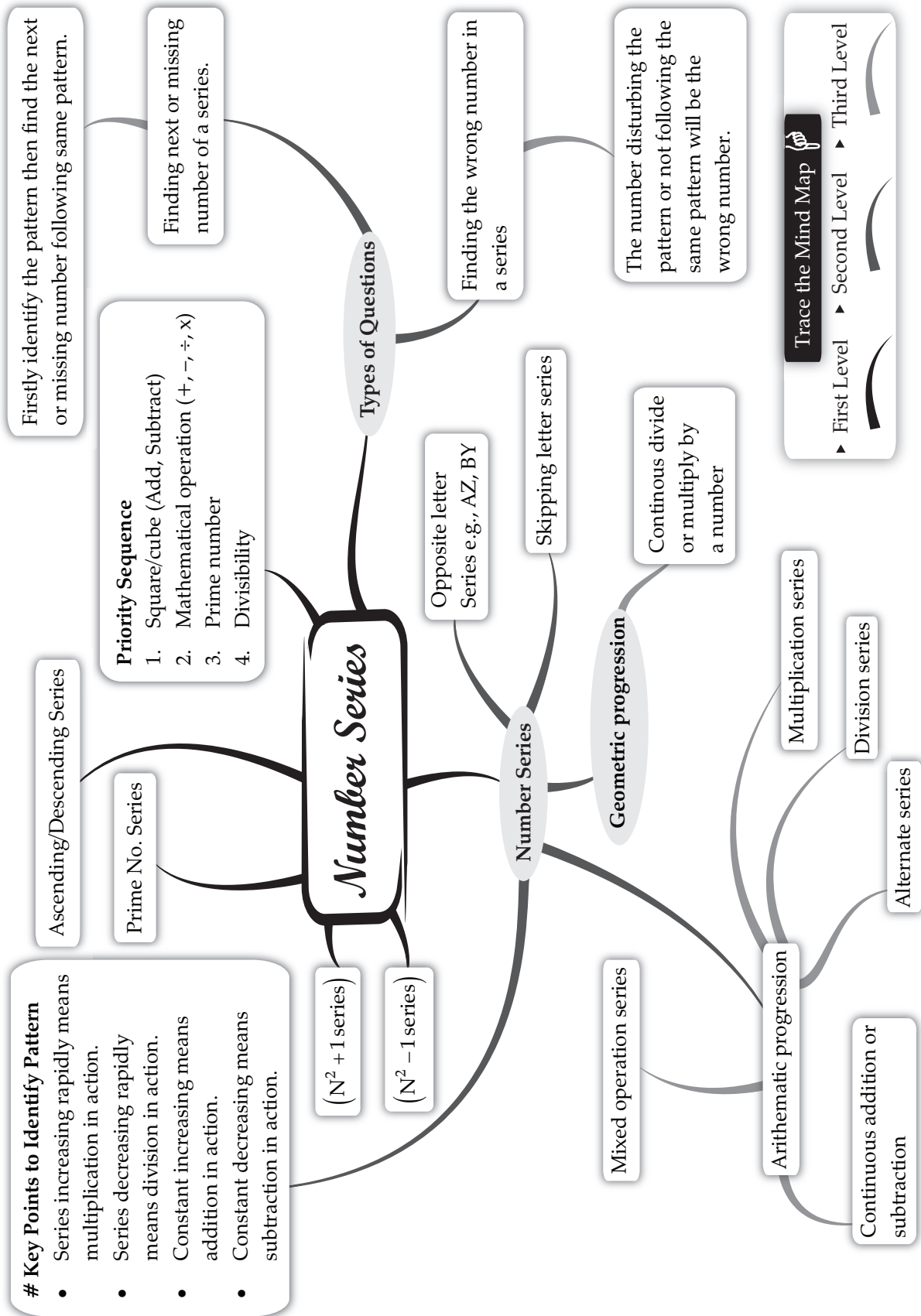


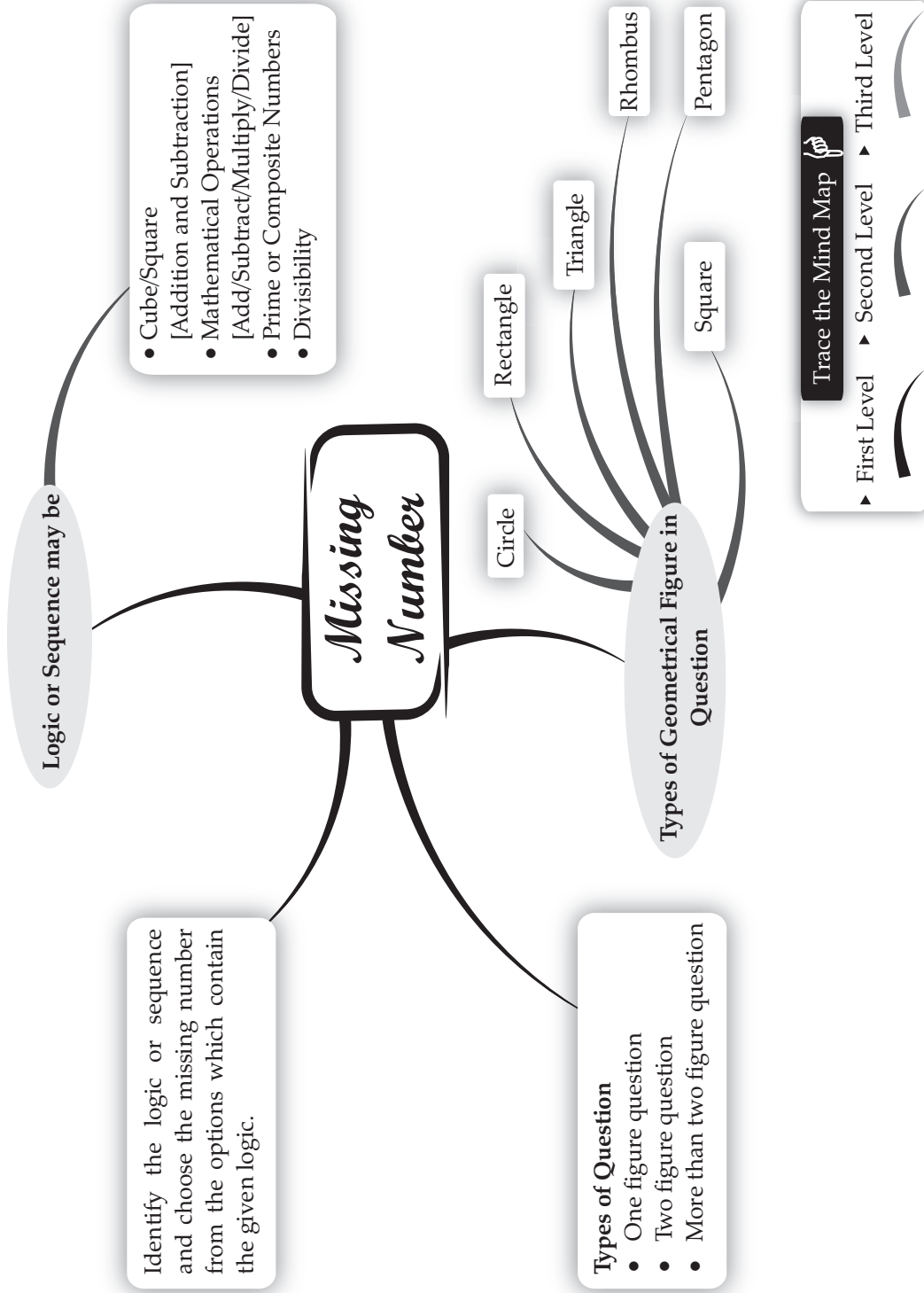
Trace the Mind Map

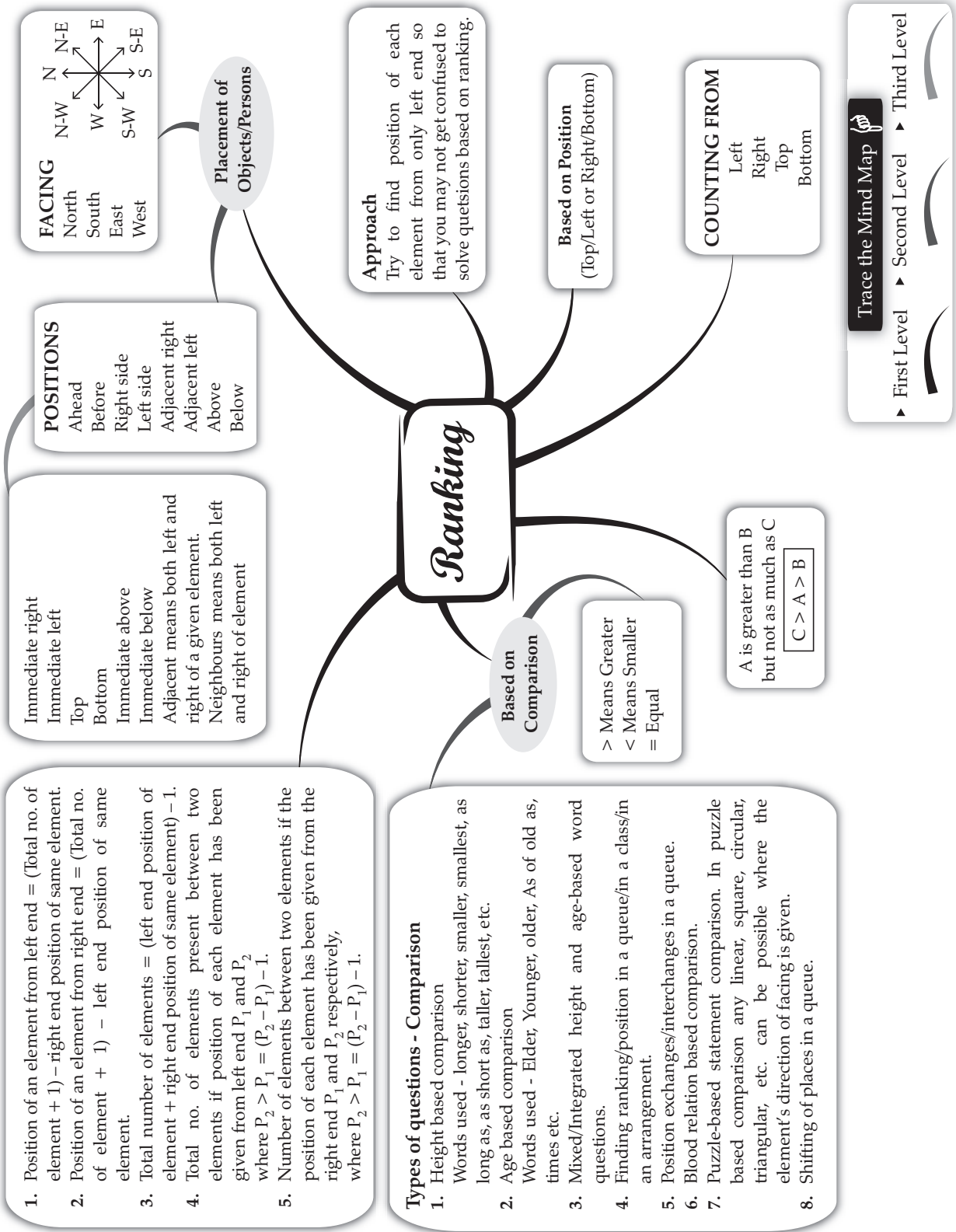
► First Level ► Second Level ► Third Level







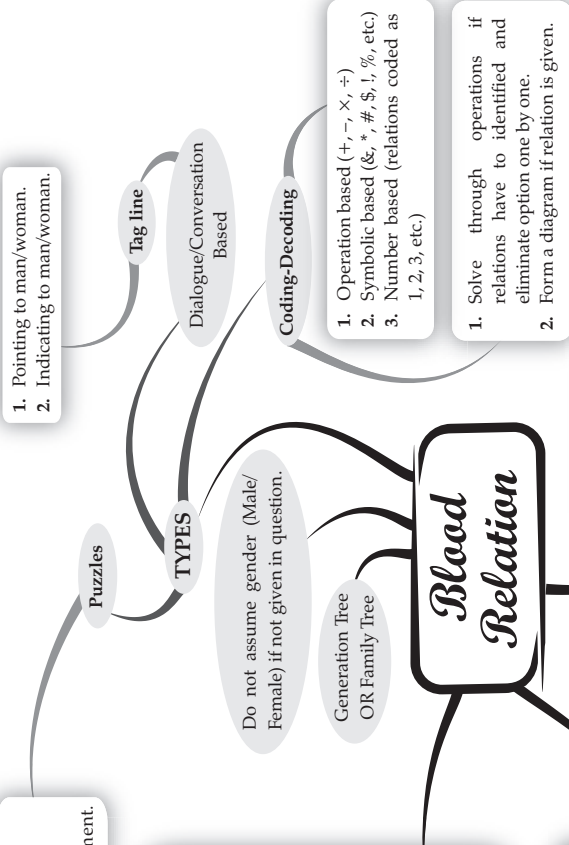




1. Linear arrangement based blood relation.
2. Circular based blood relation.
3. Age based blood relations.
4. Combination of blood relation with any of the above seating arrangement.

TIPS/TRICKS

1. Apply the question in yourself.
2. Do not assume gender.
3. Draw a family tree diagram clearly.
4. Keep all relation's name in your mind.
5. Solve through options if specific relation is not given. While checking options keep in mind gender. It has been seen that you can eliminate maximum options from given out of four options
6. In puzzle-based questions, a series of relations can be formed, so do not solve such questions in a haste.
7. If the statement says X in the son of Y, the gender of Y cannot be determined unless mentioned in the question.
8. In the case of coding-decoding blood relation, use a pictorial description to solve the question. This will make the symbols and relation more clear.



Blood Relation

Following standard symbols can be used to draw a family diagram.

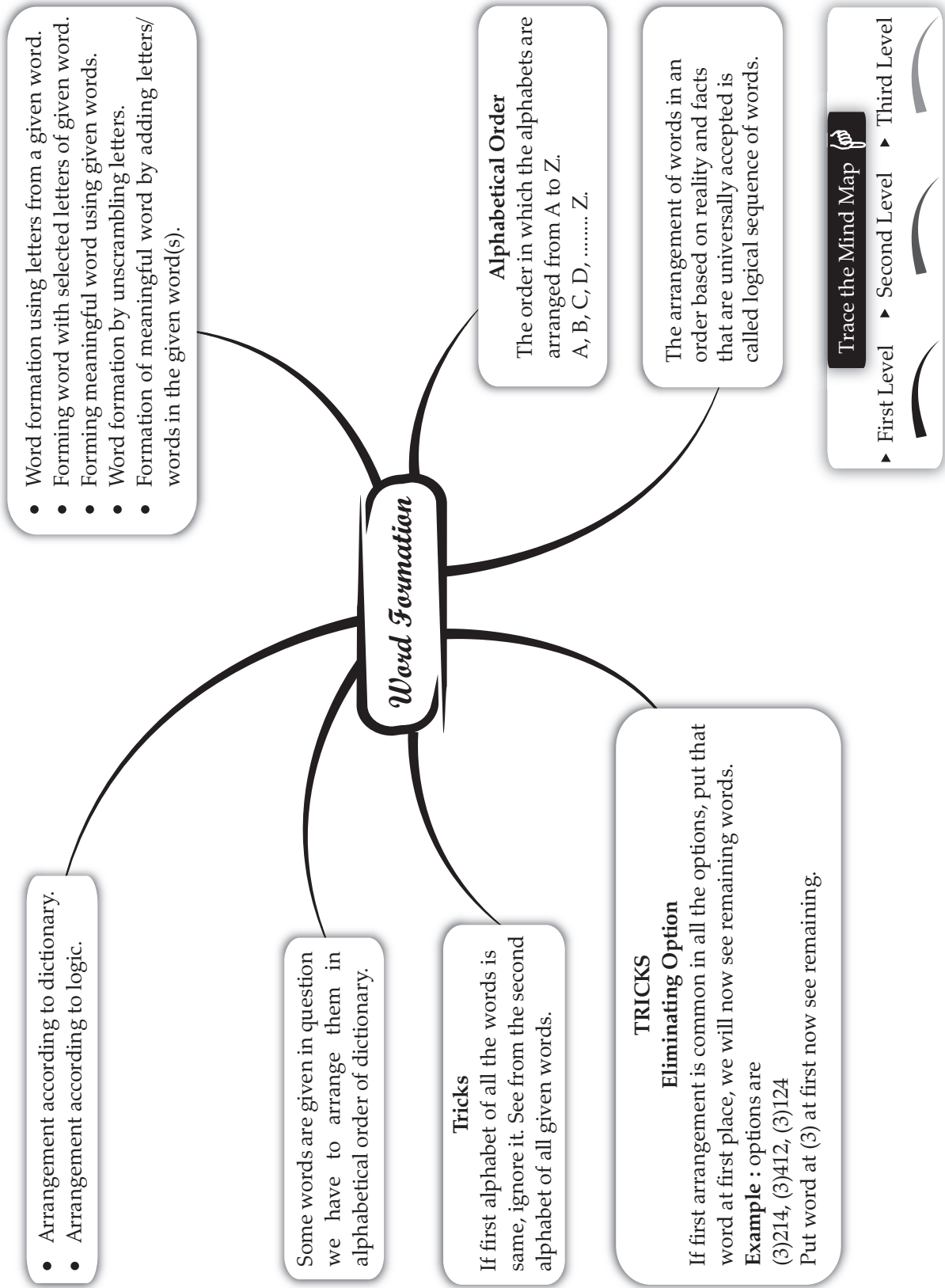
S.No.	Symbols	Meaning	S.No.	Symbols	Meaning
1.	⊕	Male	7.	⊕ Father ⊕ Son	Father-Son
2.	⊖	Female	8.	⊕ Father ⊖ Daughter	Father-Daughter
3.	⊕ ↔ ⊖	Husband-Wife	9.	⊖ Mother ⊕ Son	Mother-Son
4.	⊕ — ⊕	Brother-Brother	10.	⊕ Mother ⊖ Daughter	Mother-Daughter
5.	⊖ — ⊖	Sister-Sister	11.	⊖	Unknown Gender
6.	⊕ — ⊖	Brother-Sister			

Some of the blood relations are summarised below :

Father's or Mother's only Son/Daughter	One self
Mother's or Father's Son	Brother
Mother's or Father's Daughter	Sister
Mother's or Father's Brother	Uncle
Mother's or Father's Sister	Aunt
Mother's or Father's Father	Grandfather
Mother's or Father's Mother	Grandmother
Son's Wife	Daughter-in-law
Daughter's Husband	Son-in-law
Husband's or Wife's Sister	Sister-in-law
Husband's or Wife's Brother	Brother-in-law
Brother's Wife	Sister-in-law
Sister's Husband	Brother-in-law
Brother's or Sister's Son	Nephew
Brother's or Sister's Daughter	Niece

Trace the Mind Map

► First Level ► Second Level ► Third Level



Mathematical Operations

Trick based operations

$$9 \times 5 \times 2 = 529$$

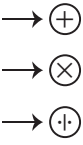
$$7 \times 8 \times 3 = 837$$

$$4 \times 7 \times 6 = 764$$

- Symbol substitution
- Interchange of signs and Numbers
- Balancing the equation
- Trick based Mathematical Operations

Balancing the Expression

$$8 \times 8 \times 1 \times 7 = 8$$



Interchange of sign
 $4 \times 3 - 2 + 6 = 4$



Question based on symbol substitution

Example :



- Symbols, notations, mathematical signs.
- Miscellaneous patterns.

We have to follow the relationship given through these sign, symbols given in the question.

Question based on interchanging mathematical signs.

Example :



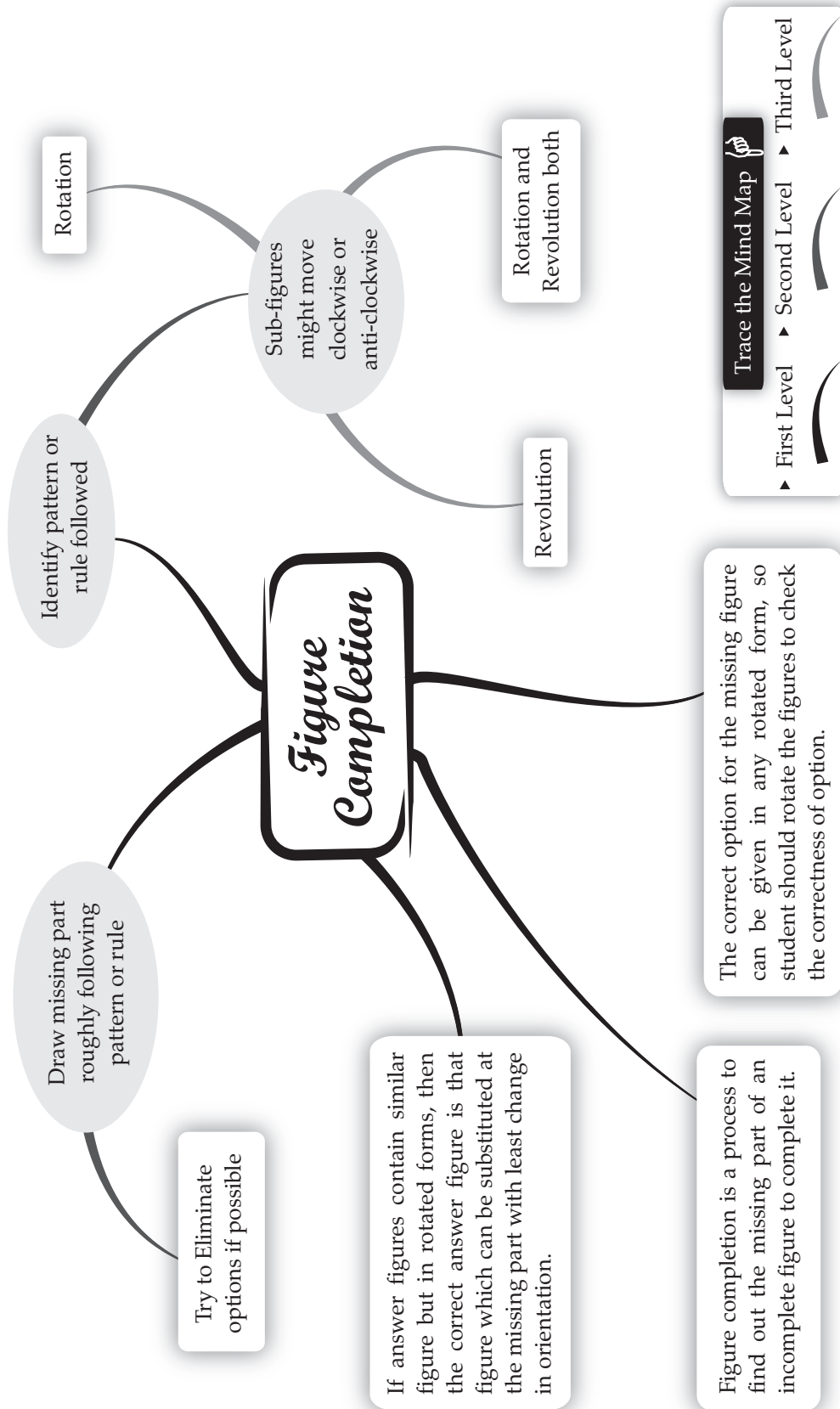
We have that option of interchanging which will satisfy the given equation in the question.

VBODMAS RULE

- V means Vinculum or Bar... (The bar you see on the top of the value \bar{X})
- B means Bracket ${} - () \{ \} []$
- O means 'of' (multiplication).
- D means Division $[\div]$
- M means Multiplication $[\times]$
- A means Addition $[\+]$
- S means Subtraction $[\-]$.

Trace the Mind Map 

► First Level ► Second Level ► Third Level



If answer figures contain similar figure but in rotated forms, then the correct answer figure is that figure which can be substituted at the missing part with least change in orientation.

Figure completion is a process to find out the missing part of an incomplete figure to complete it.

