

Booklet Level	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1	Writing Numbers			Learning Numbers up to 5		Practicing Numbers up to 5			Learning Numbers up to 10		Practicing Numbers up to 10								Repeating Patterns I		Recognizing Shapes I	Drawing Lines on Dot Paper		Drawing Figures on Dot Paper I		Comparisons I	Matching I			
2	Making 10		Learning Numbers up to 15		Practicing Numbers up to 15		Learning Numbers up to 20			Practicing Numbers up to 20				Learning Numbers up to 30		Practicing Numbers up to 30			Repeating Patterns II		Recognizing Shapes II	Drawing Figures on Dot Paper I	Drawing Figures on Grids I	Drawing Missing Shapes I	Combining Shapes I	Dividing Shapes I	Comparisons II	Matching II		
3	Understanding Numbers			Adding 1		Adding 2			Adding 3			Practicing Adding 1, 2, and 3 ①					Repeating Patterns III		Recognizing Shapes II	Drawing Figures on Dot Paper II	Drawing Figures on Grids II	Understanding Combined Shapes I	Combining Shapes II	Dividing Shapes II	Comparisons II	Matching II				
4	Practicing Adding 1, 2, and 3 ②										Subtracting 1	Subtracting 2	Subtracting 3	Practicing Subtracting 1, 2, and 3				Repeating Patterns IV		Recognizing Shapes IV	Drawing Figures on Dot Paper IV	Drawing Figures on Grids II	Drawing Missing Shapes II	Combining Shapes II	Dividing Shapes IV	Comparisons IV	Matching IV			
5	Making Numbers					Understanding Addition	Addition with Sums up to 10					Addition Facts ①					Increasing Patterns I		Number Patterns I	Recognizing Shapes V	Drawing Figures on Dot Paper V	Drawing Figures on Grids IV	Understanding Combined Shapes II	Combining Shapes IV	Dividing Shapes IV	Comparisons V	Relationships I			
6	Addition Facts ②										Reviewing Addition Facts		Addition of Three 1-Digit Numbers I			Increasing Patterns II		Number Patterns II	Recognizing Shapes VI	Drawing Figures on Dot Paper VI	Drawing Figures on Grids V	Drawing Missing Shapes V	Combining Shapes V	Dividing Shapes V	Comparing Lengths I	Relationships II				
7	Addition of 1-Digit Numbers to 10-19										Addition of 2-Digit Numbers (without regrouping)		Addition of Three 1-Digit Numbers II			Reviewing Addition			Increasing Patterns III		Number Patterns III	Recognizing Shapes VII	Drawing Figures on Dot Paper VII	Drawing Figures on Grids VI	Understanding Combined Shapes III	Combining Shapes VI	Dividing Shapes VI	Comparing Areas I	Relationships III	
8	Understanding Subtraction	Subtraction with Minuends from 2 to 10			Subtraction Facts										Recognizing Number Patterns		Number Patterns IV	Recognizing Shapes VIII	Drawing Figures on Dot Paper VIII	Drawing Figures on Grids VII	Drawing Missing Shapes VI	Combining Shapes VII	Dividing Shapes VII	Comparing Volumes I	Similarities					
9	Reviewing Subtraction Facts			Subtraction of 1-Digit Numbers from 2-Digit Minuends from 10 to 23			Subtraction of 2-Digit Numbers (without regrouping)		Subtraction of Three Numbers		Reviewing Subtraction		Reviewing Addition and Subtraction					Line Patterns I	Shape Patterns I	Domino Patterns I	Number Patterns V	Recognizing Shapes IX	Drawing Figures on Dot Paper IX	Drawing Figures on Grids VIII	Understanding Combined Shapes IV	Combining Shapes VIII	Dividing Shapes VIII	Comparing Lengths II	Recognizing Changes I	
10	Addition with Sums up to 99					Understanding 3-Digit Numbers		Addition of 2-Digit Numbers					Addition of 3-Digit Numbers ①					Line Patterns II	Shape Patterns II	Domino Patterns II	Number Patterns VI	Mirror Images			Transforming Figures		Comparing Areas I	Recognizing Changes II		
11	Addition of 3-Digit Numbers ②		Subtraction of 2-Digit Numbers					Addition and Subtraction with Three Numbers		Subtraction of 3-Digit Numbers					Line Patterns III	Shape Patterns III	Domino Patterns III	Number Patterns VII	Counting Blocks		Mirror Images		Transforming Figures		Comparing Volumes I	Recognizing Changes III				
12	Understanding Multiplication		Multiplication Facts					Multiplication of 1-Digit Numbers by Other 1-Digit Numbers			Multiplication of 2-Digit Numbers by 1-Digit Numbers ①					Number Patterns VIII	Calculating the Number of Squares	Transforming Figures III		Problem Solving by Pattern Recognition I	Problem Solving by Data Analysis I	Problem Solving by Alternative Methods I	Problem Solving by Drawing Diagrams I	Problem Solving by Deduction I	Reviewing Methods of Problem Solving I	Recognizing Changes IV				
13	Multiplication of 2-Digit Numbers by 1-Digit Numbers ②			Multiplication of 3-Digit Numbers by 1-Digit Numbers			Multiplication of 2-Digit Numbers by Other 2-Digit Numbers					Understanding 5-Digit Numbers	Multiplication of 3-Digit Numbers by 2-Digit Numbers			Recognizing and Applying Patterns I	Calculating the Number of Rectangles	Transforming Figures IV		Problem Solving by Pattern Recognition II	Problem Solving by Data Analysis II	Problem Solving by Alternative Methods II	Problem Solving by Drawing Diagrams II	Problem Solving by Deduction II	Reviewing Methods of Problem Solving II	Recognizing Changes V				
14	Understanding Division	Division Facts			Division with Remainders				Division of 2-Digit Numbers by 1-Digit Numbers					Number Patterns IX	Various Patterns I	Transforming Figures V	Transforming Figures on Grids I	Problem Solving by Pattern Recognition III	Problem Solving by Data Analysis III	Problem Solving by Alternative Methods III	Problem Solving by Drawing Diagrams III	Problem Solving by Deduction III	Reviewing Methods of Problem Solving III	Recognizing Changes VI						
15	Division of 3-Digit Numbers by 1-Digit Numbers			Understanding Large Numbers		Division by 2-Digit Numbers					Recognizing and Applying Patterns II	Recognizing Various Patterns I	Counting Blocks	Transforming Figures on Grids II	Problem Solving by Pattern Recognition IV	Problem Solving by Data Analysis IV	Problem Solving by Alternative Methods IV	Problem Solving by Drawing Diagrams IV	Problem Solving by Deduction IV	Reviewing Methods of Problem Solving IV	Understanding Word Problems									
16	Application of Arithmetic I (Length, Weight, and Volume)		Basic Operations with Whole Numbers			Learning Order of Operations					Application of Arithmetic II (Time)					Number Patterns X	Recognizing Various Patterns II	Recognizing Different Views of Blocks I	Transforming Figures on Grids III	Problem Solving Using Tree Diagrams I	Problem Solving by Reverse Calculation I	Problem Solving by Trial and Error I	Problem Solving by Drawing Diagrams V	Problem Solving by Deduction V	Reviewing Methods of Problem Solving V	Recognizing Appropriate Numbers				
17	Understanding Fractions			Comparing Fractions			Addition and Subtraction of Fractions with the Same Denominators				Application of Arithmetic III (Perimeter and Area)					Recognizing and Applying Patterns IV	Recognizing Various Patterns II	Recognizing Different Views of Blocks II	Congruency and Symmetry	Problem Solving by Pattern Recognition V	Problem Solving by Data Analysis V	Problem Solving by Alternative Methods V	Problem Solving Using Tree Diagrams VI	Problem Solving by Reverse Calculation II	Reviewing Methods of Problem Solving VI	Solving Problems Using Venn Diagrams				
18	Understanding Decimals		Addition and Subtraction of Decimals			Multiples and Factors					Equivalent Fractions	Simplifying Fractions ①			Recognizing and Applying Patterns V	Recognizing Various Patterns III	Recognizing Different Views of Blocks III	Line Symmetry	Problem Solving by Pattern Recognition VI	Problem Solving by Data Analysis VI	Problem Solving by Alternative Methods VI	Problem Solving by Drawing Diagrams VII	Problem Solving by Deduction VI	Reviewing Methods of Problem Solving VII	Evaluating Statements I					
19	Simplifying Fractions ②					Addition and Subtraction of Fractions with Different Denominators ①										Recognizing and Applying Patterns VI	Recognizing Various Patterns IV	Recognizing Different Views of Blocks IV	Point Symmetry	Problem Solving Using Tree Diagrams II	Problem Solving by Reverse Calculation III	Problem Solving by Trial and Error II	Problem Solving by Drawing Diagrams VIII	Problem Solving by Deduction VII	Reviewing Methods of Problem Solving VIII	Evaluating Statements II				
20	Addition and Subtraction of Fractions with Different Denominators ②		Addition and Subtraction of Three Fractions		Fractions and Decimals		Multiplication of Fractions			Division of Fractions					Number Relationships	Recognizing Various Patterns V	Recognizing Different Views of Blocks V	Point Symmetry	Problem Solving by Pattern Recognition VII	Problem Solving by Data Analysis VII	Problem Solving by Alternative Methods VII	Problem Solving Using Tree Diagrams III	Problem Solving by Reverse Calculation IV	Reviewing Methods of Problem Solving IX	Logic					
21	Basic Operations with Fractions		Multiplication of Decimals			Division of Decimals				Basic Operations with Decimals		Ratios				Functions I	Recognizing Various Patterns VI	Understanding Solid Figures	Similar Figures	Problem Solving by Pattern Recognition VIII	Problem Solving by Data Analysis VIII	Problem Solving by Alternative Methods VIII	Problem Solving by Drawing Diagrams IX	Problem Solving by Deduction VIII	Reviewing Methods of Problem Solving X	Analyzing Word Problems I				
22	Equations								Equivalent Ratios		Continued Ratios	Proportional Distribution	Application of Arithmetic IV (Circular Geometry)					Functions II	Recognizing Various Patterns VII	Understanding Nets I	Rotation of Figures	Problem Solving Using Tree Diagrams IV	Problem Solving by Reverse Calculation V	Problem Solving by Trial and Error III	Problem Solving by Drawing Diagrams X	Problem Solving by Deduction IX	Reviewing Methods of Problem Solving XI	Analyzing Word Problems II		
23	Basic Operations with Fractions and Decimals		Basic Operations with Whole Numbers, Fractions, and Decimals				Application of Arithmetic V (Units of Area)			Application of Arithmetic VI (Surface Area and Volume)					Application of Arithmetic VII (Volume)		Functions III	Recognizing Various Patterns VIII	Understanding Nets II	Rotation of Figures	Problem Solving by Pattern Recognition IX	Problem Solving by Data Analysis IX	Problem Solving by Alternative Methods IX	Problem Solving Using Tree Diagrams V	Problem Solving by Reverse Calculation VI	Reviewing Methods of Problem Solving XII	Analyzing Word Problems III			

Booklet Level	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
24	Factors and Multiples	Prime Factorization	Greatest Common Factor	Least Common Multiple	Sets			Decimal System and Binary System		Integers	Rational Numbers	Addition and Subtraction of Rational Numbers			Multiplication and Division of Rational Numbers ①		The Magic of Numbers	Sets in Daily Life	Magic Squares I	Systems and Codes	Square Games	Clock Angles		Rental Cars
25	Multiplication and Division of Rational Numbers ②		Mixed Operations with Rational Numbers		Evaluating Expressions			Algebraic Expressions		Equations		Linear Equations				Functions and Their Graphs ①	Speed and Time	Fitness Center	Fuel Consumption	Vending Machines	Various Problems I	Stem and Leaf Plots	Population Distribution	Tree Diagrams
26	Functions and Their Graphs ②			Frequency Tables	Relative Frequency and Cumulative Frequency	Basic Geometric Figures		Positional Relationship	Constructing Geometric Figures	Construction and Congruence of Triangles	Polygons	Circles and Sectors	Solid Figures	Surface Area and Volume of Solid Figures	Geometric Figures Composed of Vertices and Edges	Euler's Formula	The Geometry of Toothpicks	Geoboards I	Matches and Angles	The Mystery of Solid Figures		Polyominoes		Pentominoes
27	Rational Numbers and Decimals		Finding Approximate Values		Law of Exponents	Multiplication and Division of Monomials		Addition and Subtraction of Polynomials	Multiplication and Division of Polynomials		Conversion of Equations		Linear Equations with Two Variables	Systems of Equations ①			The Secret of Numbers	Number Games	Magic Squares II	Various Problems II ①			Weights and Calories	
28	Systems of Equations ②				Properties of Inequality	Linear Inequalities			Systems of Inequalities		Linear Functions and Their Graphs				Possible Outcomes	Math and Health	Field Trips	Various Problems II ②	Pascal's Triangle	Probability in Daily Life	Problems Involving Probability and Statistics	Budding a Sprout	The Sierpinski Triangle	
29	Calculation of Probability		Statements	Proofs	Properties of Isosceles Triangles	Congruence of Right Triangles	Circumcenter and Incenter of a Triangle	Properties of Parallelograms		Types of Quadrilaterals	Similar Figures	Triangles and Parallel Lines	Applications of Similarity			Dissection of Polygons	Geoboards II	Nets of Cubes I	Fibonacci Sequence	Fibonacci Figures	Congruence	Putting Figures Together	Soma Cube	
30	Square Roots	Irrational Numbers	Calculations Involving Radical Signs			Multiplying Polynomials			Factorization				Quadratic Equations ①			The Rules in Numbers	The Mystery of Numbers	Magic Squares III	Number Stories	Number Card Games	Graphs and Speed	Various Problems III ①	Math on a Green Field	
31	Quadratic Equations ②				Quadratic Functions and Their Graphs					Maximum and Minimum Values of Quadratic Functions	Central Tendency and Mean	Measure of Variation	Correlation	Pythagorean Theorem	Applications of the Pythagorean Theorem ①	Rules and Sequences	Figures and Sequences	Graphical Analysis	Switch Circuits	Various Problems III ②	Box and Whisker Plots	Koch Curves, Koch Snowflakes, and Zigzags	Pythagorean Trees	
32	Applications of the Pythagorean Theorem ②	Applying the Pythagorean Theorem	Circles and Chords	Circles and Tangent Lines	Positional Relationship between Two Circles	Central Angles and Inscribed Angles	Circles and Polygons	Tangent Lines and Chords	Circles and Proportions	Secant Lines and Tangent Lines	Examining Circles	Trigonometric Ratios		Applications of Trigonometric Ratios		Applying Trigonometric Ratios	Transformation of a Match Figure	Transformation of Figures	Nets of Cubes II	Pentomino Play	Connecting Regular Hexagons	Exploring Solid Figures	Cutting Paper	Figures and Factoring

Numbers and Arithmetic
Variables and Equations

Relationships and Functions
Probability and Statistics

Geometry
Measurement

Problem Solving I (Numbers and Arithmetic)
Problem Solving II (Algebra)
Problem Solving III (Probability and Statistics)

Spatial Sense

Teaching Tools

Levels 1-23

- Numerical Figures: Levels 1-4
- Mirror: Level 10 (Booklets 23-26, 30)
Level 11 (Booklets 25-27, 30)
- Clear Paper: Levels 1-9
- Colored Blocks: Levels 6-14
Levels 16-20
- Blocks and Shapes: Levels 1-6
- Wooden Blocks: Levels 15-23

Levels 24-32

- Thinking Bricks: Levels 24-26
- Thinking Pentos: Level 26 (Booklets 23-24)
- Thinking Cubes: Level 29 (Booklet 24)
Levels 27-29
Level 32 (Booklet 20)
- Thinking Cubes: Level 29 (Booklet 24)
Levels 30-32