GRADE III – SYNERGY MATH OLYMPIAD (SMO)

SMO SYLLABUS & QUESTION BLUEPRINT

Source 1 Framework | 4 Sections | 40 Questions | 40 Marks | 60 Minutes

Section	Title	Core Areas	Marks
A	*Number World & Mathematical Reasoning*	*Number System; Addition; Subtraction; Multiplication; Division; Fractions*	*10*
B	*Maths in Action – Everyday Mathematics*	*Length; Weight; Capacity & Quantity; Time; Money; Geometry; Data Handling*	*10*
C	*Problem Solving & Mathematical Application*	*Multi-step operations; Fractions; Measurement; Time; Money; Geometry; Data Interpretation*	*10*
D	*Brain Teasers & Synergy Challenge*	*Patterns; Analogy & Classification; Coding-Decoding; Alphabet & Word Formation; Figure Matrix; Ranking; Mirror Images; Embedded Figures*	*10*

RECOMMENDED PAPER DESIGN

Section	*Questions*	*Difficulty*	*Focus*
A – Number World	*10*	*Easy → Moderate*	*Concepts and computation*
B – Maths in Action	*10*	*Moderate*	*Everyday application*
C – Problem Solving	*10*	*Moderate*	*Mathematical thinking*
D – Brain Teasers & Synergy Challenge	*10*	*Moderate → Challenging*	*Logical and visual reasoning*

Picture-Based Questions: *Recommend 8–10 visual questions, especially from Geometry, Data Handling, Patterns, Figure Matrix, Mirror Images and Embedded Figures.*

SMO Grade III Objective: *Build accuracy in mathematics while developing logical reasoning, visualisation, problem-solving ability and higher-order thinking through the Synergy Challenge.*

SYNERGY MATHS OLYMPIAD (SMO)

Grade 3 — Practice Paper & Sample Questions

SECTION A: MATHEMATICAL & LOGICAL REASONING

Q1. Look at the number sequence below:

2, 4, 8, 16, 32, ?

Find the next number in the pattern.

(A) 48

(B) 64

(C) 36

(D) 50

Q2. [Picture Based] Look at the clock face shown below:



What time will it be in **30 minutes**?

(A) 3:45

(B) 4:15

(C) 4:00

(D) 3:15

SECTION B: DAY-TO-DAY MATHS & MEASUREMENT

Q3. Rohan buys 3 boxes of crayons. Each box has 12 crayons. He gives 10 crayons to his friend. How many crayons are left with Rohan?

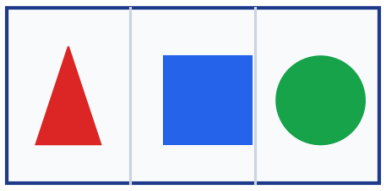
(A) 26 crayons

(B) 36 crayons

(C) 22 crayons

(D) 16 crayons

Q4. [Picture Based] Identify the relationship in the figure group below:



Count the total number of straight line sides across all figures shown above.

(A) 7 sides

(B) 8 sides

(C) 10 sides

(D) 12 sides

SECTION C: PROBLEM SOLVING

Q5. A school bus travels 15 kilometers in the morning and 18 kilometers in the evening. How many kilometers will the bus travel in 5 working days?

(A) 165 km
(B) 150 km
(C) 125 km
(D) 180 km

Q6. Ananya has two ₹20 notes, three ₹10 coins, and four ₹5 coins. She wants to buy a storybook worth ₹100. How much more money does she need?

(A) ₹10
(B) ₹20
(C) ₹15
(D) ₹5

★ SECTION D: SYNERGY CHALLENGE (HOTS) ★

Synergy Challenge Q1.

I am a 3-digit number.

- My hundreds digit is the smallest odd prime number.
- My tens digit is double my hundreds digit.
- The sum of all my three digits is 15.

What number am I?

(A) 366
(B) 129
(C) 368
(D) 249

Answer Key & Detailed Explanations

- **Q1: (B) 64** — Each number doubles (×2): 2, 4, 8, 16, 32, 32×2 = 64.
- **Q2: (B) 4:15** — Clock shows 3:45. Adding 30 minutes gives 4:15.
- **Q3: (A) 26 crayons** — Total crayons = 3 × 12 = 36. Left = 36 - 10 = 26.
- **Q4: (A) 7 sides** — Triangle (3 sides) + Square (4 sides) + Circle (0 straight sides) = 3 + 4 = 7 sides.
- **Q5: (A) 165 km** — Daily distance = 15 + 18 = 33 km. 5 days = 33 × 5 = 165 km.
- **Q6: (A) ₹10** — Total = (2×20) + (3×10) + (4×5) = 40 + 30 + 20 = ₹90. Needed = 100 - 90 = ₹10.
- **Synergy Challenge: (A) 366** — Hundreds digit = 3 (smallest odd prime). Tens digit = 3×2 = 6. Ones digit = 15 - (3+6) = 6. Number = 366.