MIND CARVER

GLOBAL MATH OLYMPIAD 1.0

Voyager Level — Grades 5–6

Setting Sail with Numbers

Past Paper — For Reference & Practice

40 Questions · 60 Minutes · 2.5 Marks per Question · 100 Marks Total

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Section 1: Arithmetic Anchors (20 Marks)

Q1. What is the value of 6 + 4 × 3?

A. 18
B. 22
C. 30
D. 14

Section 1: Arithmetic Anchors (20 Marks)

Q2. What is the value of (10 − 4) × 2?

A. 8
B. 12
C. 16
D. 20

Section 1: Arithmetic Anchors (20 Marks)

Q3. Add: 3,456 + 2,789 = ?

A. 6,145
B. 6,245
C. 6,345
D. 6,045

Section 1: Arithmetic Anchors (20 Marks)

Q4. Subtract: 8,000 − 3,256 = ?

A. 4,644
B. 4,744
C. 4,844
D. 4,944

Section 1: Arithmetic Anchors (20 Marks)

Q5. A shop sells 250 items per day. How many items are sold in 12 days?

A. 2,800
B. 3,000
C. 3,200
D. 3,500

Section 1: Arithmetic Anchors (20 Marks)

Q6. Which of these numbers is a factor of 36?

A. 5
B. 7
C. 9
D. 11

Section 1: Arithmetic Anchors (20 Marks)

Q7. What is the value of $5^2 - 3^2$?

A. 10
B. 16
C. 20
D. 25

Section 1: Arithmetic Anchors (20 Marks)

Q8. Divide 144 by 12.

A. 10
B. 11
C. 12
D. 13

Section 2: Fraction & Decimal Bay (20 Marks)

Q9. Convert 3/4 to a decimal.

A. 0.25 B. 0.5
C. 0.75 D. 0.8

Section 2: Fraction & Decimal Bay (20 Marks)

Q10. Convert 0.4 to a fraction in simplest form.

A. 4/10 B. 2/5
C. 1/4 D. 4/100

Section 2: Fraction & Decimal Bay (20 Marks)

Q11. Add: 1/2 + 1/4 = ?

A. 1/4 B. 2/4
C. 3/4 D. 1

Section 2: Fraction & Decimal Bay (20 Marks)

Q12. Subtract: 1.5 − 0.6 = ?

A. 0.9 B. 1.0
C. 1.1 D. 0.8

Section 2: Fraction & Decimal Bay (20 Marks)

Q13. A ribbon is 2.5 meters long. How many centimeters is that?

A. 25 cm B. 205 cm
C. 250 cm D. 2500 cm

Section 2: Fraction & Decimal Bay (20 Marks)

Q14. What is 50% of 60?

A. 20 B. 25
C. 30 D. 35

Section 2: Fraction & Decimal Bay (20 Marks)

Q15. Which fraction is bigger: 2/3 or 3/5?

A. 2/3 B. 3/5
C. Equal D. Cannot tell

Section 2: Fraction & Decimal Bay (20 Marks)

Q16. Multiply: 0.5 × 0.4 = ?

A. 0.09 B. 0.2
C. 0.9 D. 2.0

Section 3: Geometry Cove (20 Marks)

Q17. What type of angle is exactly 90°?

A. Acute B. Right
C. Obtuse D. Reflex

Section 3: Geometry Cove (20 Marks)

Q18. What type of angle is 120°?

A. Acute
B. Right
C. Obtuse
D. Reflex

Section 3: Geometry Cove (20 Marks)

Q19. What is the area of a rectangle with length 10 cm and width 6 cm?

A. 16 cm^2
B. 32 cm^2
C. 60 cm^2
D. 66 cm^2

Section 3: Geometry Cove (20 Marks)

Q20. What is the perimeter of a square with side 9 cm?

A. 18 cm
B. 27 cm
C. 36 cm
D. 45 cm

Section 3: Geometry Cove (20 Marks)

Q21. What is the sum of the angles in a triangle?

A. 90°
B. 180°
C. 270°
D. 360°

Section 3: Geometry Cove (20 Marks)

Q22. A circle has a radius of 5 cm. What is its diameter?

A. 5 cm
B. 10 cm
C. 15 cm
D. 20 cm

Section 3: Geometry Cove (20 Marks)

Q23. How many sides does a hexagon have?

A. 5
B. 6
C. 7
D. 8

Section 3: Geometry Cove (20 Marks)

Q24. A rectangle has a length of 12 cm and a width that is half the length. What is the width?

A. 4 cm
B. 6 cm
C. 8 cm
D. 10 cm

Section 4: Logic Lagoon (20 Marks)

Q25. In a magic square, every row and column sums to 15. If two numbers in a row are 4 and 6, what is the third number?

A. 3
B. 5
C. 7
D. 9

Section 4: Logic Lagoon (20 Marks)

Q26. Fahad is older than Zara. Zara is older than Bilal. Who is the oldest?

A. Fahad
B. Zara
C. Bilal
D. Cannot tell

Section 4: Logic Lagoon (20 Marks)

Q27. Solve: 2x + 3 = 11. What is x?

A. 3
B. 4
C. 5
D. 6

Section 4: Logic Lagoon (20 Marks)

Q28. What is the next number in the sequence: 4, 9, 19, 39, ___ (each number doubles and 1 is added)?

A. 59
B. 69
C. 79
D. 99

Section 4: Logic Lagoon (20 Marks)

Q29. A code shifts each letter 3 positions forward in the alphabet (A→D). What does "CAB" become?

A. FDE
B. FED
C. EDF
D. FCE

Section 4: Logic Lagoon (20 Marks)

Q30. If all Squibbles are Wobbles, and all Wobbles are Zibbles, are all Squibbles definitely Zibbles?

A. Yes
B. No
C. Cannot be determined
D. Only some

Section 4: Logic Lagoon (20 Marks)

Q31. Find the missing number: 50, 44, 38, 32, ___ (subtract 6 each time)

A. 24
B. 26
C. 28
D. 30

Section 4: Logic Lagoon (20 Marks)

Q32. A group has 12 animals: some chickens (2 legs) and some goats (4 legs). If there are 34 legs in total, how many goats are there?

A. 4
B. 5
C. 6
D. 7

Section 5: Data Harbor (20 Marks)

Q33. A survey shows the number of pets owned by 5 families: 2, 3, 1, 4, 0. What is the mean number of pets?

A. 1
B. 1.5
C. 2
D. 2.5

Section 5: Data Harbor (20 Marks)

Q34. A table shows the temperature over 4 days: Mon 20°C, Tue 24°C, Wed 22°C, Thu 26°C. What is the average temperature over these 4 days?

A. 21°C
B. 22°C
C. 23°C
D. 24°C

Section 5: Data Harbor (20 Marks)

Q35. Using the same temperature data, on which day was it the warmest?

A. Monday
B. Tuesday
C. Wednesday
D. Thursday

Section 5: Data Harbor (20 Marks)

Q36. A bar graph shows the number of books sold in a week at 4 stores: Store A 40, Store B 55, Store C 30, Store D 45. Which store sold the most books?

A. Store A
B. Store B
C. Store C
D. Store D

Section 5: Data Harbor (20 Marks)

Q37. Using the same book sales data, how many more books did Store B sell than Store C?

A. 15
B. 20
C. 25
D. 30

Section 5: Data Harbor (20 Marks)

Q38. Find the median of this data set: 8, 3, 10, 6, 5.

A. 5
B. 6
C. 8
D. 10

Section 5: Data Harbor (20 Marks)

Q39. Find the mode of this data set: 2, 4, 4, 6, 8, 4, 10.

A. 2
B. 4
C. 6
D. 8

Section 5: Data Harbor (20 Marks)

Q40. A line graph shows a plant's height increasing every week for a month. What does this tell us?

A. The plant is growing taller over time
B. The plant is shrinking
C. The plant's height never changes
D. There is no pattern