
IQNEXUS MATHEMATICS OLYMPIAD (IQMO)

Sample Paper | Class 6 | Session: 2025

Challenging Minds, Building Futures

General Instructions:

- **Total Questions:** 30
- **Total Marks:** 100
- **Time Allowed:** 1 Hour
- **All questions are compulsory.**
- Each question has **four options**, only one is correct.

STUDENT DETAILS

- **Student Name:** _____
- **Class:** _____ **Section:** _____
- **Exam Roll No.:** _____
- **School Name:** _____

PATTERN & MARKING SCHEME

SECTION 1: FUNDAMENTAL CONCEPTS (*10 Questions, 30 Marks*)

Q1. What is the value of $(15 \div 3) \times (8 - 5) + 7$?

- A) 12
- B) 15
- C) 18
- D) 22

Q2. The sum of two consecutive even numbers is 42. Find the numbers.

- A) 18, 20
- B) 20, 22
- C) 22, 24
- D) 16, 18

Q3. A number is divisible by 9 if:

- A) The last digit is 9
- B) The sum of its digits is a multiple of 9
- C) The number is even
- D) The number ends in 0

Q4. The product of two numbers is 180, and their HCF is 6. What is their LCM?

- A) 15
- B) 30
- C) 36
- D) 60

Q5. The perimeter of a square is 48 cm. What is its area?

- A) 64 cm^2
- B) 144 cm^2
- C) 196 cm^2
- D) 121 cm^2

Q6. Convert $\frac{3}{5}$ into percentage.

- A) 30%
- B) 40%
- C) 50%
- D) 60%

SECTION 2: LOGICAL THINKING (5 Questions, 15 Marks)

Q1. Find the missing number in the series: **2, 5, 10, 17, ?, 37**

- A) 22
- B) 26
- C) 28
- D) 30

Q2. A person is facing **north**. He turns **90° clockwise**, then **180° counterclockwise**, and finally **90° clockwise**. Which direction is he facing now?

- A) North
- B) South

- C) East
- D) West

Q3. A train leaves a station at 10:15 AM and reaches its destination at 1:35 PM. How long was the journey?

- A) 2 hours 30 minutes
 - B) 3 hours 10 minutes
 - C) 3 hours 20 minutes
 - D) 3 hours 45 minutes
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SECTION 3: APPLIED PROBLEM SOLVING (10 Questions, 35 Marks)

Q1. A shopkeeper sells a toy for ₹750 after giving a **10% discount**. What was the original price of the toy?

- A) ₹800
- B) ₹833.33
- C) ₹850
- D) 980

Q2. A train travels **240 km in 4 hours**. What is its average speed?

- A) 40 km/hr
- B) 50 km/hr
- C) 60 km/hr
- D) 70 km/hr

Q3. The simple interest on ₹5000 at **8% per annum** for **2 years** is:

- A) ₹600
- B) ₹700
- C) ₹800
- D) ₹900

Q4. The area of a circle with **radius 7 cm** is:

- A) 132 cm²
- B) 144 cm²
- C) 154 cm²
- D) 176 cm²

Q5. The cost of 15 notebooks is ₹300. Find the cost of **1 notebook**.

- A) ₹10
- B) ₹15

- C) ₹18
 - D) ₹20
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SECTION 4: ACHIEVERS SECTION (5 Questions, 20 Marks)

Q1. A father is **30 years older than his son**. In **10 years**, he will be **twice his son's age**. Find their present ages.

- A) 30, 10
- B) 40, 10
- C) 50, 20
- D) 60, 30

Q2. The sum of the first **12 even numbers** is:

- A) 132
- B) 144
- C) 156
- D) 234

Q3. Find the smallest number which, when divided by 12, 18, and 24, leaves a remainder of 5 in each case.

- A) 77
- B) 113
- C) 125
- D) 149

Q4. Find the value of $(\sqrt{64} + \sqrt{25}) \div (\sqrt{16} - \sqrt{9})$

- A) 20
- B) 11
- C) 13
- D) 18

Here is the IQNexus Mathematics Olympiad (IQMO) Class 6 Answer Key in a Word-compatible format:

IQNexus Mathematics Olympiad (IQMO) – Class 6 Answer Key

Section 1: Fundamental Concepts

1. D) 22
 2. B) 20, 22
 3. B) The sum of its digits is a multiple of 9
 4. B) 30
 5. B) 144 cm²
 6. D) 60%
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Section 2: Logical Thinking

7. B) 26
8. A) North
9. C) 3 hours 20 minutes

Section 3: Applied Problem Solving

10. B) ₹833.33
11. C) 60 km/hr
12. C) ₹800
13. C) 154 cm²
14. D) ₹20

Section 4: Achievers Section

15. B) 40, 10

16. C) 156

17. A) 77

18. D) 13

