
IQNexus Mathematics Olympiad (IQMO) – Class 4

Total Questions: 30

Total Marks: 100

Time: 1 Hour

Section 1: Number Sense & Operations (10 questions, 30 marks)

(Each question carries 3 marks.)

1. What is the sum of 473 and 328?
 - a) 781
 - b) 801
 - c) 793
 - d) 811
 2. What is the place value of 7 in the number 47,258?
 - a) 7
 - b) 70
 - c) 7,000
 - d) 700
 3. Which of the following numbers is divisible by 3?
 - a) 127
 - b) 242
 - c) 369
 - d) 508
 4. Find the missing number in the pattern: **125, 250, 375, __, 625**
 - a) 475
 - b) 500
 - c) 525
 - d) 550
 5. What is **856 ÷ 4**?
 - a) 214
 - b) 212
 - c) 218
 - d) 222
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Section 2: Patterns & Logical Thinking (5 questions, 15 marks)

(Each question carries 3 marks.)

1. What is the missing number in the pattern?

2, 6, 12, 20, __, 42

- a) 28
- b) 30
- c) 32
- d) 34

2. If $3 \heartsuit 4 = 12$, $5 \heartsuit 2 = 10$, and $6 \heartsuit 3 = 18$, then what is $7 \heartsuit 2$?

- a) 12
- b) 14
- c) 16
- d) 18

3. If a clock shows 4:15, how many degrees is the angle between the hour and minute hands?

- a) 30°
- b) 45°
- c) 52.5°
- d) 37.5°

4. If today is Monday, what day will it be after 25 days?

- a) Thursday
- b) Friday
- c) Saturday
- d) Sunday

5. Identify the missing term in the series: **A, C, F, J, __, T**

- a) K
 - b) M
 - c) O
 - d) P
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Section 3: Word Problems & Applications (10 questions, 35 marks)

(Each question carries 3.5 marks.)

1. A shopkeeper had 485 apples. He sold 189 apples. How many apples are left?

- a) 296
- b) 300
- c) 306
- d) 310

2. The perimeter of a rectangle is 36 cm. If the length is 10 cm, what is the width?
 - a) 4 cm
 - b) 8 cm
 - c) 6 cm
 - d) 10 cm
 3. A box contains 5 red balls, 7 blue balls, and 8 green balls. What is the probability of picking a blue ball?
 - a) $\frac{7}{20}$
 - b) $\frac{5}{20}$
 - c) $\frac{8}{20}$
 - d) $\frac{7}{15}$
 4. If a train travels **72 km in 90 minutes**, what is its speed per hour?
 - a) 40 km/hr
 - b) 45 km/hr
 - c) 48 km/hr
 - d) 50 km/hr
 5. In a basket, there are 12 mangoes and 16 oranges. What is the ratio of mangoes to oranges?
 - a) 4:3
 - b) 3:4
 - c) 2:3
 - d) 3:2
 6. A field is 50 meters long and 30 meters wide. What is its area?
 - a) 1500 m²
 - b) 1800 m²
 - c) 1300 m²
 - d) 2000 m²
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Section 4: Achievers Section (5 challenging questions, 20 marks)

(Each question carries 4 marks.)

1. If $A + B = 24$, $B + C = 18$, and $A + C = 22$, what is the value of $A + B + C$?
 - a) 30
 - b) 32
 - c) 36
 - d) 40
2. How many **diagonals** does a pentagon have?
 - a) 5
 - b) 7
 - c) 10
 - d) 15

3. If $x + y = 15$ and $x - y = 5$, then what is the value of $x \times y$?
- a) 50
 - b) 40
 - c) 60
 - d) 55
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Answers

SECTION 1: NUMBER SENSE & OPERATIONS

- 1. B) 801
- 2. C) 7,000
- 3. C) 369
- 4. B) 500
- 5. A) 214

SECTION 2: PATTERNS & LOGICAL THINKING

- 1. B) 30
- 2. B) 14
- 3. D) 37.5°
- 4. C) Saturday
- 5. C) O

SECTION 3: WORD PROBLEMS & APPLICATIONS

- 1. A) 296
- 2. B) 8 cm
- 3. A) $7/20$
- 4. C) 48 km/hr
- 5. B) 3:4
- 6. A) 1500 m^2

SECTION 4: ACHIEVERS SECTION

- 1. B) 32
- 2. A) 5
- 3. A) 50