

CLASS

3

SAMPLE PAPER



International Mathematics Olympiad

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 3 sections: 10 questions in section I, 15 in section II and 10 in section III.

Section – I : Logical Reasoning, **Section – II** : Mathematical Reasoning &
Section – III : Everyday Mathematics

SYLLABUS

Numerals and number name, Number Sense (4 digit numbers), Addition, Subtraction, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Problems based on figures, Find odd numeral out, Patterns, Series completion, Coding-decoding, Mirror images, Embedded figures, Straight lines and curved lines, Geometrical shapes.



International Mathematics Olympiad

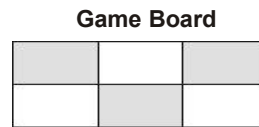
1. A class collected seven hundred fourteen box tops. Which number represents seven hundred fourteen?
(A) 704 (B) 714 (C) 740 (D) 741

2. What is the standard form of $7,000 + 800 + 20 + 5$?
(A) 7,285 (B) 7,825
(C) 7,852 (D) 7,528

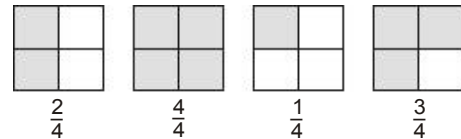
3. The students count 149 balls in the gym. What is another way of writing the number of balls in the gym?
(A) Fourteen nine (B) One forty-nine
(C) One hundred forty-nine (D) One hundred fourteen nine

4. Which place value is used to prove that 5,487 is less than 5,874?
(A) Ones place (B) Tens place (C) Hundreds place (D) Thousands place

5. Tina shades in 3 spaces on a game board.
What fraction of the game board is shaded?
(A) $\frac{3}{6}$ (B) $\frac{3}{5}$
(C) $\frac{3}{3}$ (D) $\frac{6}{3}$



6. Monty drew models of fractions on the board and asked his students to compare them.
Which example shows the fractions listed in order from greatest to least?



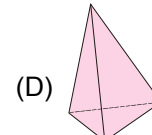
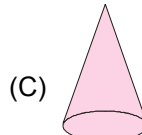
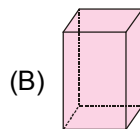
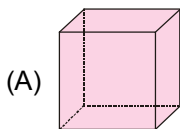
- (A) $\frac{2}{4}, \frac{4}{4}, \frac{1}{4}, \frac{3}{4}$ (B) $\frac{4}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}$
(C) $\frac{4}{4}, \frac{3}{4}, \frac{2}{4}, \frac{1}{4}$ (D) $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$

7. What property of addition will help you find the answer to the problem: $6 + 0 = ?$
(A) Zero plus any number equals zero
(B) Zero plus any number equals that number
(C) Zero minus any number equals that number
(D) Zero minus any number equals zero

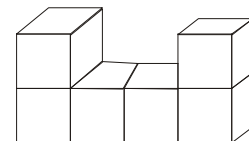
8. Sara and 3 of her friends together made a poster. They drew 8 rows of squares with 6 squares in each row. How many squares did Sara and her friends draw on the poster?
(A) 48 (B) 42 (C) 40 (D) 17

9. Joy has 363 baseball cards. Mickey has 288, John has 412, and Kevin has 126. How many do they have all together?
(A) 1,089 (B) 1,179 (C) 1,189 (D) 1,279

10. Which of the following has a curved surface and a flat surface?



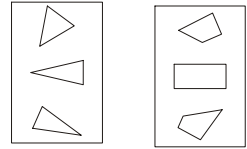
11. How would this block model look from the top?



12. Komal built a birdhouse at summer camp.
What shape is the piece of wood that was cut out to make the door of his birdhouse?
(A) Triangle (B) Diamond
(C) Circle (D) Pentagon

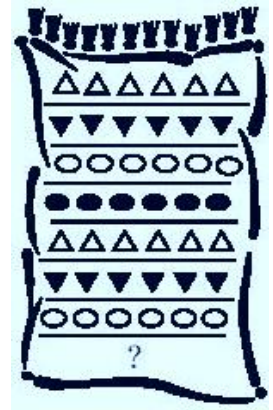


13. Mrs. Ryan shows her class two groups of shapes. Then she asks, "Which rule was used to sort these shapes into groups?"
- (A) Large things and small things
 (B) Triangles and squares
 (C) Circles and figures with 4 sides
 (D) Triangles and figures with four sides



14. Joshua is weaving a pattern into a rug. What would most likely come next?

- (A) ● ● ● ● ● ●
 (B) ○ ○ ○ ○ ○ ○
 (C) △ △ △ △ △ △
 (D) ▼ ▼ ▼ ▼ ▼ ▼



15. Meena made this pattern with balls:



Which of the following uses a rule most different from Meena's pattern?

- (A) (B)
 (C) (D)

16. If Pawan has baseball practice every fourth day in the month of March, starting with March 1, what date will be his last day of practice for the month?
- (A) March 28
 (B) March 29
 (C) March 30
 (D) March 31

MARCH						
S	M	T	W	Th	F	S
					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	31

17. The rule for sorting is "has four or more corners." Which group has been sorted correctly?

- (A) (B)
 (C) (D)

18. Third-grade students went to a theatre in 8 buses. Each bus took 45 students. How many students went to the theatre?
 (A) 320 (B) 360 (C) 380 (D) 3240
19. On Friday, 1250 people visited the zoo. Three times as many people visited on Saturday than on Friday. How many people visited the zoo on Saturday?
 (A) 3615 (B) 3650 (C) 3750 (D) 3753
20. During Field Day, 1624 students from Shimla Hill School were equally divided into 8 different events. How many students were in each event?
 (A) 203 (B) 206 (C) 221 (D) 224

SAMPLE ANSWER SHEET

1. **NAME** : If your name is SACHIT AIYER, then you should write as follows :

S	A	C	H	I	T	A	I	Y	E	R														
---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

2. **Father's Name** : If your father's name is SATISH KUMAR SHARMA, then you should write as follows :

S	A	T	I	S	H	K	U	M	A	R	S	H	A	R	M	A								
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

SCHOOL CODE					
M	H	0	5	4	7
A	A	●	0	0	0
B	B	1	1	1	1
C	C	2	2	2	2
D	D	3	3	3	3
E	E	4	4	●	4
F	F	5	●	5	5
G	G	6	6	6	6
H	●	7	7	7	●
I	I	8	8	8	8
J	J	9	9	9	9
K	K				
L	L				
●	M				
N	N				
O	O				
P	P				
Q	Q				
R	R				
S	S				
T	T				
U	U				
V	V				
W	W				
X	X				
Y	Y				
Z	Z				

3. SCHOOL CODE
Write your school code i.e. if your school code is MH0547 darken as follows :

Darken the circle

6. GENDER
If you are a boy, then darken Male circle

GENDER	
MALE ●	FEMALE ○

4. CLASS
If you are in Class 10, then you should darken as follows :

5. ROLL NO.
If your roll no. is 587, then you should write and darken the circles as follows :

CLASS		ROLL NO.		
1	0	5	8	7
●	●	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	●	5	5
6	6	6	6	6
7	7	7	7	●
8	8	8	●	8
9	9	9	9	9

Darken the circle



7. If your choice for Answer 1 is C, then you should darken the circle as follows : 1. (A) (B) ● (D)

MARK YOUR ANSWERS WITH HB PENCIL/BALL POINT PEN (BLUE/BLACK)

International Mathematics Olympiad

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|--------------------|--------------------|---------------------|---------------------|---------------------|
| 1. (A) (B) (C) (D) | 5. (A) (B) (C) (D) | 9. (A) (B) (C) (D) | 13. (A) (B) (C) (D) | 17. (A) (B) (C) (D) |
| 2. (A) (B) (C) (D) | 6. (A) (B) (C) (D) | 10. (A) (B) (C) (D) | 14. (A) (B) (C) (D) | 18. (A) (B) (C) (D) |
| 3. (A) (B) (C) (D) | 7. (A) (B) (C) (D) | 11. (A) (B) (C) (D) | 15. (A) (B) (C) (D) | 19. (A) (B) (C) (D) |
| 4. (A) (B) (C) (D) | 8. (A) (B) (C) (D) | 12. (A) (B) (C) (D) | 16. (A) (B) (C) (D) | 20. (A) (B) (C) (D) |

ANSWERS

International Mathematics Olympiad

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|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1. (B) | 2. (B) | 3. (C) | 4. (C) | 5. (A) | 6. (C) | 7. (B) | 8. (A) | 9. (C) | 10. (C) |
| 11. (A) | 12. (C) | 13. (D) | 14. (A) | 15. (B) | 16. (B) | 17. (C) | 18. (B) | 19. (C) | 20. (A) |