

CLASS

3

SAMPLE PAPER

**Science
Olympiad
Foundation**

For Excellence in Science, Maths & IT

INTERNATIONAL MATHEMATICS OLYMPIAD

The actual test paper has 50 questions. Time allowed : 60 minutes. There are 3 sections, 20 questions in section I, 20 in section II and 10 in section III.

Section I : Logical Reasoning, **Section II** : Mathematical Reasoning &

Section III : Everyday Mathematics

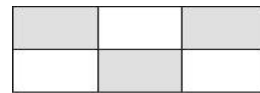
SYLLABUS

Four digit Numbers, Addition, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Line and plane Figures.

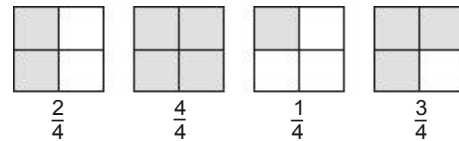
- A class collected seven hundred fourteen box tops. Which number represents seven hundred fourteen?
(A) 704 (B) 714 (C) 740 (D) 741 (E) None of these.
- What is the standard form of $7,000 + 800 + 20 + 5$?
(A) 7,285 (B) 7,825 (C) 7,852 (D) 7,528 (E) None of these.
- The students count 149 balls in the 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 (E) None of these.
- 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 (E) None of these.

- Tina shades in 3 spaces on a game board. How much of the game board is shaded?
(A) $\frac{3}{6}$ (B) $\frac{3}{5}$
(C) $\frac{3}{3}$ (D) $\frac{6}{3}$ (E) None of these.

Game Board

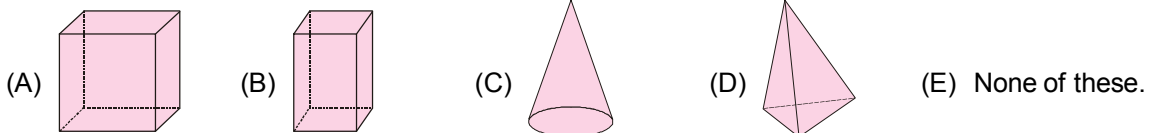


- Monty drew models of fractions on the board and asked his students to compare them. Which example shows the fractions listed in order from **greatest to least**?

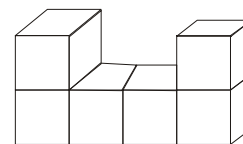
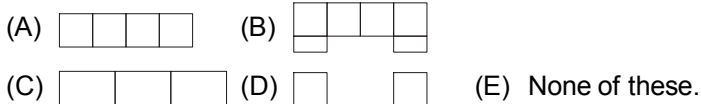


- (A) $\frac{2}{4}, \frac{4}{4}, \frac{1}{4}, \frac{3}{4}$ (B) $\frac{4}{4}, \frac{3}{4}, \frac{1}{4}, \frac{2}{4}$ (C) $\frac{3}{4}, \frac{3}{4}, \frac{2}{4}, \frac{1}{4}$ (D) $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, \frac{4}{4}$ (E) None of these.

- 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 (E) None of these.
- Together, Sara and 3 of her friends 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 (E) None of these.
- 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 (E) None of these.
- Which of the following has a curved surface and a flat surface?



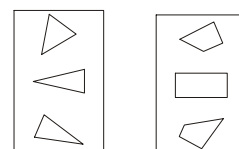
- How would this block model look from the top?



- 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 (E) None of these.

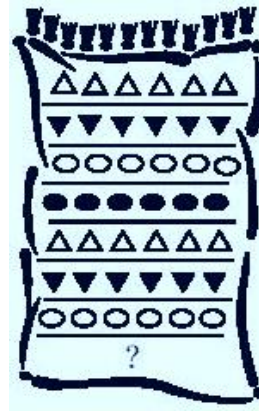


- Mrs. Ryan shows her class two groups of shapes. Then she asks, "Which rule was used to sort these shapes into groups?"
(A) Large things and small things (B) Triangles and squares
(C) Circles and figures with 4 sides (D) Triangles and figures with four sides (E) None of these.



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

- (A) ● ● ● ● ● ●
- (B) ○ ○ ○ ○ ○ ○
- (C) △ △ △ △ △ △
- (D) ▼ ▼ ▼ ▼ ▼ ▼
- (E) None of these.



15. Meena made this pattern with balls:



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

- (A)
- (B)
- (C)
- (D)
- (E) None of these.

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
- (E) None of these.

MARCH						
S	M	T	W	Th	F	S
				1	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)
- (E) None of these.

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
- (E) None of these.

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
- (E) None of these.

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
- (E) None of these.

ANSWER KEY

- 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)