

SCO International Math  
Olympiad

Total Questions -30

Maximum Mark - 90

Duration - 1 hr

	Pattern and Marking Scheme	
No. of Questions	30	-
Marks Per Question	3	

Syllabus

International Math Olympiad - IMO

Grade 4

**Total Questions: 30 | Time: 1 hr.****Guidelines for the Candidate**

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. Write your Name, School Code, Class, Roll No (Last 3 or 4 or 6 digits). and Mobile Number clearly on the OMR Sheet and do not forget to sign it. We will share your marks / result and other information related to Olympiad exams on your email ID.
3. The Question Paper comprises four sections: subject based reasoning, subject questions and achievers questions.
4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, use HB Pencil or Blue / Black ball point pen only. E.g. Q.10: What is the capital of India? A. New Delhi B. Kolkata C. Mumbai D. Chennai.  
As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.
7. Rough work should be done in the blank space provided in this booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided on this page before attempting the paper.

**Q1. The number shown in the given figure is:**

#####	##		##	#####	####
L	TTh	Th	H	T	O

- A. 510234
- B. 520264
- C. 522246
- D. 554432

**Q2. Statement 1:** If we have to round off a number to the nearest 10, the rounding digit is the digit at tens place.

**Statement 2:** If we have to round off a number to the nearest 100, the rounding digit is the digit at tens place.

- A. Statement 1 is correct
- B. Statement 2 is correct
- C. Both are incorrect
- D. Only statement 1 is correct

**Q3. Replace the ?**

Roman number	I	V	X	L	C	D	M
Hindu Arabic number	1	5	10	?	?	?	1000

- A. 50,100,500
- B. 50,500,100
- C. 25,50,100
- D. 50,75,100

**Q4. Replace the ?**

<b>Roman number</b>	I	V	X	L	C	D	M
<b>Hindu Arabic number</b>	1	5	10	?	?	?	1000

- A. 50,100,500
- B. 50,500,100
- C. 25,50,100
- D. 50,75,100

**Q5. Match the following:**

**Column 1**

- P. CDV+CLX
- Q. DLXV-XLV
- R. CCCXI+DCL
- S. CMX-DXIV

**Column 2**

- 1. DXX
- 2. CCCXCVI
- 3. DLXV
- 4. CMLXI

- A. P-3,Q-1,R-4,S-2
- B. P-4,Q-2,R-3,S-1
- C. P-3,Q-4,R-1,S-2
- D. P-2,Q-1,R-3,S-4

**Q6. Identify the number using the given clues:**

Its tens digit is the smallest prime number.

Its ones digit is five more than its tens digit.

Its hundreds digit is third multiple of its ones digit.

digit

- A. 2127
- B. 2028
- C. 2121
- D. 2109

**Q7. Which of the following statements is incorrect?**

- A.  $4682/10$  leaves the remainder 2.
- B. Only I,X,C and M can be repeated.
- C. V,L,D cannot be repeated.
- D. All are incorrect.

**Q8. Name the property:**



- $58743+0=58743$

- A. Property of zero
- B. Property of one
- C. Both are correct
- D. Both are incorrect

**Q9. Fill the box:**



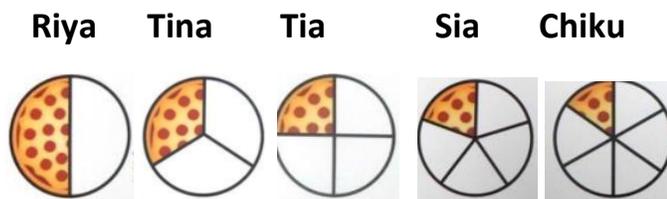
- A. Multiplier
- B. Multiplicand
- C. Number
- D. Addend

**Q10. Statement 1:** Every number has 1 and number itself as its factor.

**Statement 2:** Every number has 1 and the number itself as its multiple.

- A. Statement 1 is correct
- B. Statement 2 is correct
- C. Both are correct
- D. Both are incorrect

**(Q.11 to 15)**



In a pizza party above group of friends enjoyed a lot and ate pizza as per their likings. Answer the following questions:

**Q11. The fraction of pizza eaten by Tia:**

- A.  $\frac{1}{4}$
- B.  $\frac{3}{4}$
- C.  $\frac{1}{3}$
- D.  $\frac{1}{5}$

**Q12. Fractional part of pizza eaten by Riya?**

- A.  $\frac{1}{2}$
- B. Half
- C. One third
- D. A and B are correct

**Q13. Who ate too much of pizza?**

- A. Riya
- B. Tia
- C. Sia
- D. Chiku

**Q14. Who among all the friends ate very less amount of pizza?**

- A. Chiku
- B. Tia
- C. Sia
- D. Riya

**Q15. Fractional part of pizza eaten by Riya and Chiku are \_\_\_\_\_.**

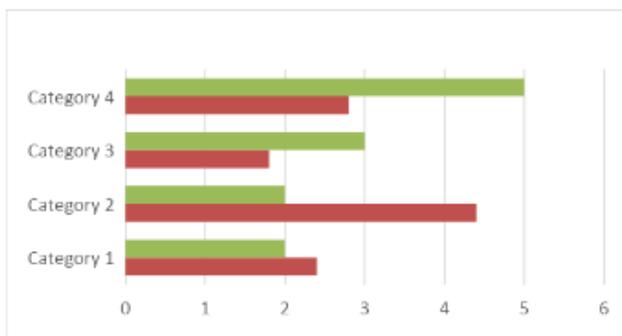
- A. Equal
- B. Unequal
- C. Can't be determined
- D. None of the above

**Q. (16 – 20)**

The graph given below shows the liking of children and adults. The green bar shows the liking of children and the red bar shows the liking of adults.

- **Category 1:** Healthy breakfast
- **Category 2:** Intake of green vegetables
- **Category 3:** Chocolates
- **Category 4:** Junk food

Read the following graph and answer the following questions:



**Q16. Junk food is equally liked by children and adults.**

- A. True
- B. False
- C. Cannot be determined
- D. Both B and C

**Q17. Likings of Adults and children are almost same in all the categories.**

- A. True
- B. False
- C. Cannot be determined
- D. Both B and C

**Q18. If pizza is liked by  $\frac{6}{7}$  children and  $\frac{2}{7}$  adult. Find the difference:**

- A.  $\frac{4}{7}$
- B.  $\frac{3}{7}$
- C.  $\frac{5}{7}$
- D. 0

**Q19. Healthy food  $\frac{3}{5}$  + Green vegetables  $\frac{2}{5}$  + Chocolate  $\frac{4}{5}$  + junk food  $\frac{4}{5}$ :**

- A.  $\frac{13}{5}$
- B.  $\frac{12}{5}$
- C.  $\frac{11}{5}$
- D.  $\frac{9}{5}$

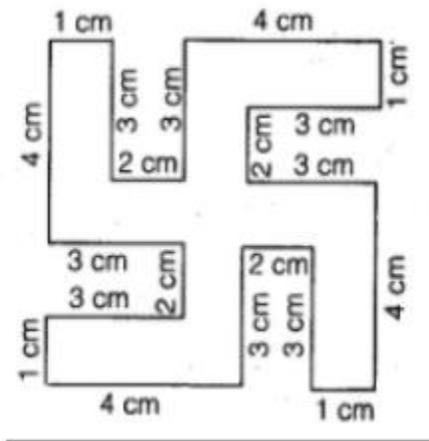
**Q20. Most liked category by children:**

- A. Healthy food
- B. Green Vegetables
- C. Chocolates
- D. Junk food

**Q21. The perimeter of the given figure is same as the area of the given figure.**

- A. True
- B. False
- C. Sometimes true sometimes false
- D. True only for quadrilaterals

**Q22. The perimeter of the given figure:**



- A. 52 m
- B. 52cm
- C. 54cm
- D. Cannot be calculated

**Q. (23 – 27) See the given figure and answer the questions:**

soft toy cat	basketball	toy car	tractor
			
Rs 100	Rs 80	Rs 500	Rs 750

**Q23. The cheapest toy is:**

- A. Soft toy cat
- B. Basketball
- C. Toy car
- D. Tractor

**Q24. Total money required to buy all the toys:**

- A. Rs 1350
- B. Rs 2030
- C. Rs 2000
- D. Rs 2500

**Q25. If shopkeeper gives discount of Rs. 500 then what is the amount to be paid**

- A. Rs 1530
- B. Rs 1500
- C. Rs 1800
- D. Rs 2000

**Q26. If the boy has only Rs 600 and he want to buy any two toys so Please help him to decide what all he can buy.**

- A. Soft toy and toy car
- B. Soft toy and basket ball
- C. Toy car and basket ball
- D. All options are correct

**Q27. If he purchases all the toys and paid Rs. 2030 to the shopkeeper and found a defect in tractor so he returned it back. What amount will shopkeeper return?**

- A. Rs 750
- B. Rs 800
- C. Rs 100
- D. Rs 600

**Q28. If**  **=**  **and**  **=10 litres. How many**  
 **buckets of water is required to fill 50 such ?**

- A. 250 buckets
- B. 100 buckets
- C. 500 buckets
- D. 250 litres

**Q29. Shikha wants to mark her friend's wedding date on the calendar given below. It will be 8 days after Gandhi jayanti.**

OCTOBER						
M	T	W	T	F	S	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			

**On which day and date will be the wedding?**

- A. Thursday,10 October
- B. Wednesday, 9 October
- C. Friday,10 October
- D. Wednesday,2 October

**Q30. Nitin took 12min 10 sec to walk from office to home. On his way back to office he got stuck in traffic jam and reached there in 20 minutes. How much extra time he wasted in traffic jam?**

- A. 470 seconds
- B. 7 min 50 seconds
- C. Both are correct
- D. Only A is correct

**SPACE FOR ROUGH WORK**

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SCO International Olympiad 2022-23

