Certificate of Participation

This certificate is awarded to AKSHITA MISHRA

Class 07 *Roll no.* KA040407003

student of GEAR INNOVATIVE INTERNATIONAL SCHOOL

NO. 175, GEAR ROAD, OFF SARJAPUR & OUTER RING ROAD, DODDAKANNELI

BENGALURU, KARNATAKA

He/She participated in SOF International Mathematics Olympiad conducted during

November 2021 - February 2022 & secured International Rank 1073

Regional Rank 611 *Zonal Rank* 344 *& School Rank* 11.

New Delhi | Gurugram
April, 2022

Mahabir Singh
Founder Director

Dr. Narindra Virmani
Chairman

SOF
SCIENCE OLYMPIAD FOUNDATION

SPR
STUDENT PERFORMANCE REPORT
2021-22

An Indepth Analysis of Student's Subject Knowledge

School Code:	KA0404	Class: 07

Roll No.: KA040407003

Student's Name: AKSHITA MISHRA

School Name : GEAR INNOVATIVE INTERNATIONAL SCHOOL
BENGALURU, KARNATAKA

I M O
SOF INTERNATIONAL MATHEMATICS OLYMPIAD

CONTENTS

Dear Parents,

STUDENT PERFORMANCE REPORT- SOF IMO – 2021-22

Congratulations on your child's participation in the **SOF International Mathematics Olympiad** conducted during November 2021 - February 2022. The SOF IMO is conducted annually by SOF, organizer of the World's Biggest Olympiad Exams.

Please find enclosed the Student Performance Report (S.P.R.) of your ward for SOF IMO.

This Performance Report provides the following analysis:

- It details the performance of the student in SOF International Mathematics Olympiad and provides question wise answers given by the student.

- It identifies the "LEARNING GAPS" of the student in Mathematics and shares topics/areas in which the student needs to improve domain knowledge / subject understanding.

- It compares the student's performance with peer group of students to assist in understanding her/his subject knowledge vis-à-vis other students across the school/city/state/globe and identifies topics/areas requiring focussed efforts.

- It traces the performance of the student over the past several years (during which the student has appeared in SOF Olympiads) and highlights progress made versus his/her peer group.

I wish you and your child all the best and pray that you utilize your energies and time in consonance with your mission and achieve academic success.

With Best Wishes,
Mahabir Singh
Founder Director

CURRENT YEAR'S PERFORMANCE

I.M.O. 2021-22

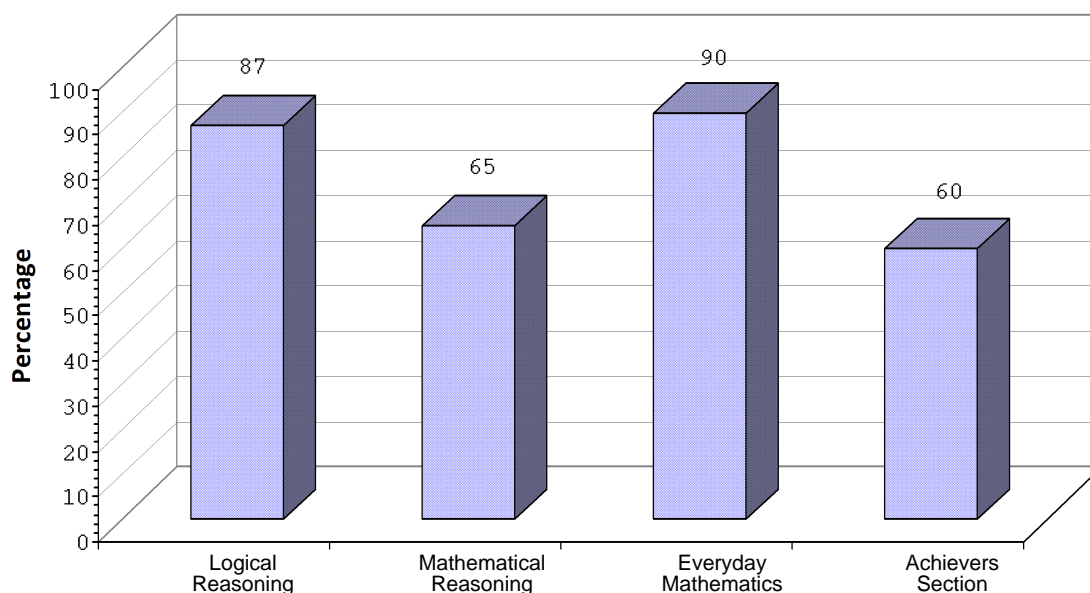|	
Roll No : KA040407003	REGION : SOUTH
SCHOOL NAME : GEAR INNOVATIVE INTERNATIONAL SCHOOL	ZONE : KARNATAKA ZONE-1
CITY : BENGALURU	COUNTRY : INDIA
STATE : KARNATAKA	

Award Won : Participation Certificate and Student Performance Report

- ❖ Maximum Marks : 60
- ❖ Marks Scored : 44
- ❖ Percentile Score : 87.44
- ❖ School Rank : 11
- ❖ City Rank : 344
- ❖ Zonal Rank : 344
- ❖ Regional Rank : 611
- ❖ International Rank : 1073

MARKS COMPARISON

❖ Marks Scored by You	:	44
❖ Highest Marks Scored in Your Class	:	57
❖ Highest Marks Scored in Your City	:	60
❖ Highest Marks Scored in Your Zone	:	60
❖ Highest Marks Scored in Your Region	:	60
❖ Highest Marks Scored Internationally	:	60

Roll No: KA040407003

S.NO.	SECTION NAME	TOTAL MARKS (In Section)	MARKS SCORED (In Section)	PERCENTAGE	GRADE	DESCRIPTION
1.	Logical Reasoning	15	13	87	A	EXCELLENT
2.	Mathematical Reasoning	20	13	65	B	GOOD
3.	Everyday Mathematics	10	9	90	A	EXCELLENT
4.	Achievers Section	15	9	60	C+	FAIR
	Total	60	44	73	B+	VERY GOOD

Percentage	Grade	Description
91-100%	A+	Outstanding
81-90%	A	Excellent
71-80%	B+	Very Good
61-70%	B	Good

Percentage	Grade	Description
51-60%	C+	Fair
41-50%	C	Average
0-40%	D	Needs Improvement

Q.NO.	QUESTIONS	CORRECT ANSWER	YOUR ANSWER CORRECT/WRONG	CORRECT ANSWER %

SECTION: LOGICAL REASONING

Q.NO.	QUESTIONS	CORRECT ANSWER	YOUR ANSWER CORRECT/WRONG	CORRECT ANSWER %
1	Find the missing number, if the given matrix follows a certain rule either row-wise or column-wise.	B	✔	58.80
2	Select the incorrect number in the given number pattern.	C	✔	48.73
3	Which of the following options satisfy the same conditions of placement of dots as in the given figure?	D	✔	52.40
4	In the given figure, circle represents number of persons who like coffee, rectangle represents number of persons who like tea and triangle represents number of persons who like juice. How many persons are	D	✔	78.13
5	Count the number of cubes in the given figure.	D	✔	75.17
6	If the first and third digits in each of the following numbers are interchanged and then the numbers are arranged in descending order. What will be the middle digit of the middle number? 613 432 573 485 907	C	✔	74.23
7	If 'P' denotes '–', 'Q' denotes '÷', 'R' denotes '+' and 'S' denotes '×', then what is the value of 136S12Q68P42R18?	A	✔	51.63
8	There are three figures X, Y and Z of a sheet of a paper. Figure X and Y shows the two consecutive folds of the sheet and figure Z shows cuts on the folded sheet. Choose the figure from the options that resembles	C	✔	74.23
9	Select the correct water image of the given figure.	C	✔	51.79
10	Select a figure from the options which will complete the given figure matrix.	B	✔	75.34
11	Shikha walks 5 m towards South and then she turns to East and walks 4 m. Again she turns to South and walks 3 m. At the end, she turns to East again and walks 2 m. How far is she now from her starting point?	B	✔	18.01
12	The position of how many letters in the word "WONDERFUL" remains unchanged when they are arranged in alphabetical order?	A	✔	62.49
13	Count the number of triangles in the given figure.	D	✘	39.33
14	In a certain code language "BIRTHDAY" is written as "XENHTZWU. How is "PLEASURE" written in that code language?	A	✔	45.17
15	If EPSWY is related to LWZDF in some way, then in the same way AMOTV is related to _____ .	D	✘	57.91

SECTION: MATHEMATICAL REASONING

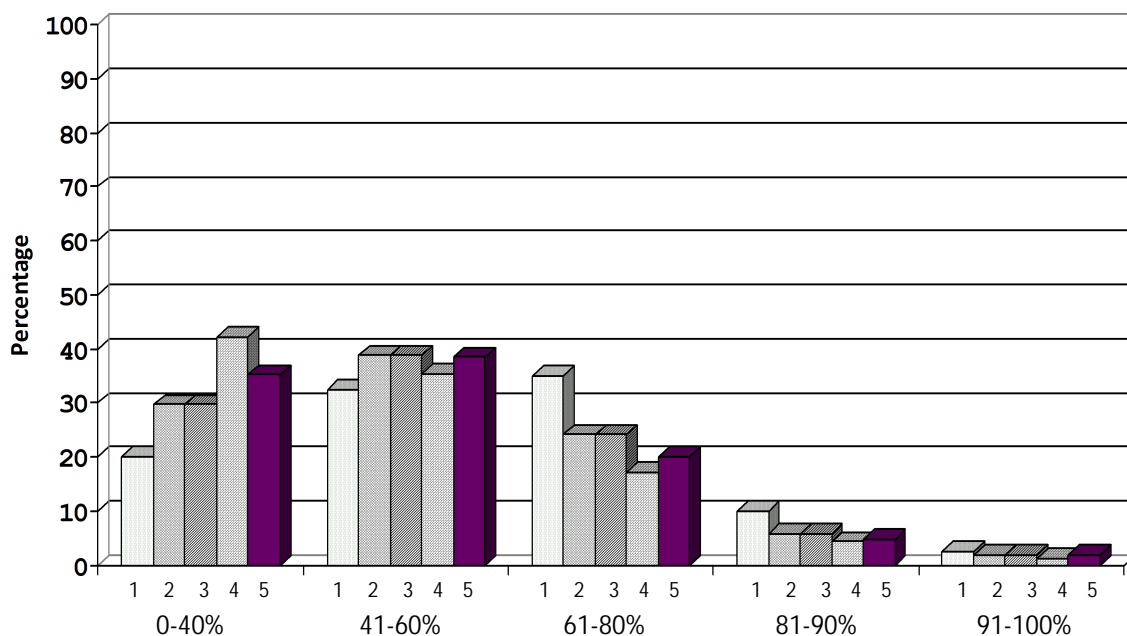| Q.NO.	QUESTIONS	CORRECT ANSWER	YOUR ANSWER CORRECT/WRONG	CORRECT ANSWER %
16	In the given figure (not drawn to scale), by which congruence criteria ?	B	✘	19.02
17	Name the polyhedron that can be formed by folding the given net.	A	✔	55.14
18	The given bar graph shows the number of toys manufactured by company A and B in different months in a certain year. In which month, the production of toys was maximum by company A and B together?	D	✔	63.21
19	In the given figure, (not drawn to scale) find the measure of $\angle ROS$, $\angle POQ$ and $\angle POT$ respectively.	D	✔	68.91
20	The following number line shows the temperature in degree celsius (°C) at different places (P to T) on a particular day. What is the difference of temperature of the hottest and coldest places as shown on the	B	✘	53.78
21	Amit borrows ? 4800 at the rate of 8% interest per annum. How much amount will he return after 4 years?	C	✘	51.98
22	The rectangle is made up of 12 identical squares. It is divided into 4 parts. Which of the following 2 parts will be removed to form of the rectangle?	D	✔	45.30
23	In the given figure (not drawn to scale), if PR = QS and PS = QR, then which of the following is incorrect?	C	✘	60.49
24	There are 6500 students in a college in which 30% join Humanities course, 45% Non-medical, 15% Commerce and 10% Medical. Find the total number of students who join Non-medical and Medical.	C	✔	62.07
25	What should be subtracted from x3 + 4x2 + 3x – 2 to get x3 – 2x2 + 4?	C	✔	44.29

Roll No: KA040407003

Q.NO.	QUESTIONS	CORRECT ANSWER	YOUR ANSWER CORRECT/WRONG	CORRECT ANSWER %
	SECTION: MATHEMATICAL REASONING			
26	If P = (−9) + 4 − (−10) + 3 and Q = (−8) + (−5) + (−3) − (−14), then what will be the value of P * Q , if a * b = a + 2b.	A	✓	31.16
27	If $\frac{l}{m} = \frac{(2^{-3})^2 \times (3^2)^{-3} \times (5^{-4})^2}{(2^{-2})^5 \times (3^3)^{-2} \times (5^{-3})^4}$, then the value of $\frac{(10)^4 m}{l}$ is _____.	A	✗	21.68
28	A rhombus has _____ lines of symmetry.	B	✓	49.26
29	Find the additive inverse of .	D	✗	29.77
30	For which equation(s) is x = 7 a solution?	B	✗	65.52
31	In the given figure, l and m are two parallel lines and n is a transversal line that intersects the two lines. If? x = 65°, then find the values of y, z and w.	A	✓	73.63
32	Which of the following is true regarding the given number 33264? (i) It is divisible by 3 (ii) It is divisible by 11 (iii) It is divisible by 4 (iv) It is divisible by 9	B	✓	65.67
33	The heights of 10 students were measured in cm and the results are as follows : 147, 139, 135, 136, 149, 166, 152, 163, 155, 144 (i) What is the range (in cm) of the data? (ii) What is the mean height (in cm) of the	A	✓	58.19
34	Which of the following steps is incorrect while constructing a triangle PQR in which and PQ = QR = 6.5 cm? Step-I : Draw a line segment QR of length 6.5 cm. Step-II : At Q, draw Step-III : Cut an arc on QX at a distance	A	✓	37.12
35	The area of two squares are in the ratio 25 : 36. Then the ratio of their perimeters is _____ .	D	✓	70.11
	SECTION: EVERYDAY MATHEMATICS			
36	The price of a bat is ? 14 more than three times the price of a ball. If cost of a bat is ? 176. Find the total cost of 3 bats and 4 balls.	C	✓	54.02
37	Radhika was asked to find of a number. But by mistake, she divides the number by and thus got an answer, which exceeds the correct answer by 55. Find the correct answer.	D	✗	19.45
38	There are 14 red strips and 12 white strips. One strip is selected at random. What is the probability that selected strip is of white colour?	A	✓	52.45
39	There are 255 boxes of different sizes large, medium and small. These boxes are in the ratio 2 : 8 : 5. Find the number of medium size boxes.	A	✓	47.29
40	The price of 24 m cloth is ? 2304. Naina needs 16 m cloth to make curtains from it. How much she has to pay to buy 16 m cloth?	D	✓	60.39
41	In my accounts book, I write positive numbers for profits (in ?) and negative numbers for losses (in ?) that I make in my business. Following are the entries in the book for the last seven days: 21, −19, 11, −20, 17, 25	D	✓	52.58
42	Aarav bought an air conditioner for ? 84000. He spends ? 4200 on its repairing. After some months, he sold it for ? 72,800. Find his loss% or profit%.	C	✓	42.32
43	A boy is standing 9 m away from a building of height 12 m. A string is used by boy to fly a kite. Find the length of the string.	A	✓	57.80
44	Anju's mother gave her ? (3x2 +2y2) and her father gave her ? (−x2 − 7y2). How much money is left with her, if she spent ? (x2 − 4y2) on her birthday party?	A	✓	43.95
45	The radius of the circular park covered with grass is 3 m. A path of width 2.5 m is to be made around it. People uses this path for walking. Find the area of the path. (Use π = 3.14)	B	✓	30.92
	SECTION: ACHIEVERS' SECTION			
46	Read the given statements carefully and select the correct option. Statement I : If one number is times of another number and sum of the numbers is 96, then 42 is the smallest number. Statement II : If length and	A	✓	28.58
47	Read the given statements carefully and select the correct option. Statement-1 : Two right angled triangles are said to be congruent if hypotenuse and one side of one triangle is equal to the hypotenuse and any side	A	✗	28.19
48	Which of the following steps is incorrect regarding the construction of a triangle DEF where DE = 8 cm, D = 60° E = 45°?	B	✓	48.78
49	Which of the following options is correct according to the given observations? 115, 120 146, 148, 150, 145, 132, 136, 132	C	✓	39.35
50	Match the Column I with Column II and select the correct option.	D	✗	30.83

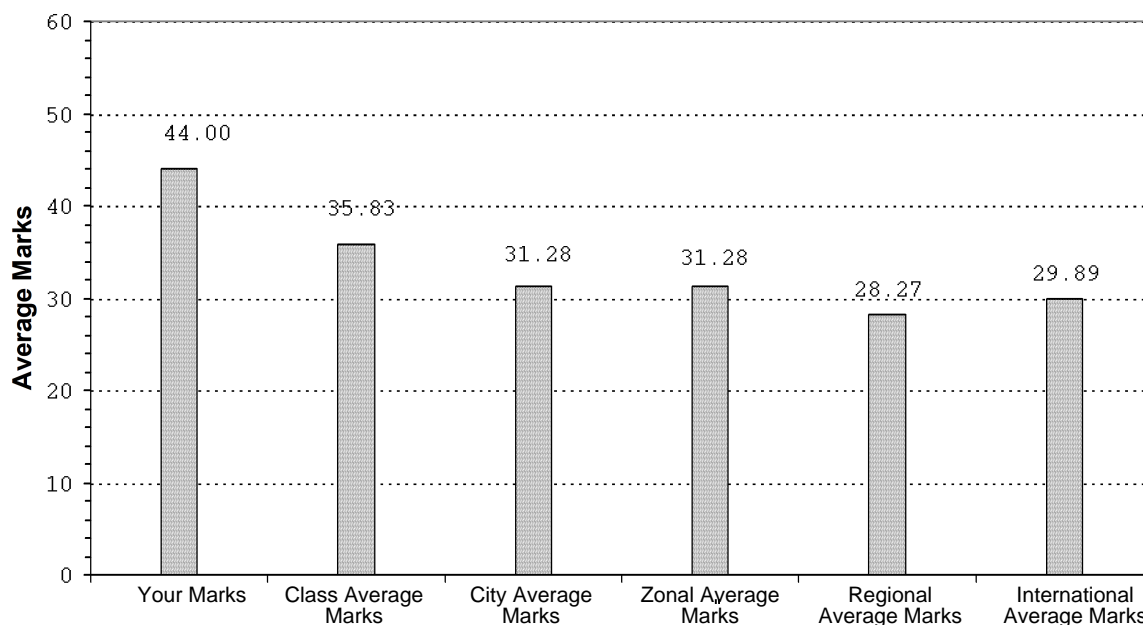Total Marks: 60   Questions in Achievers section carry three marks each and all other questions carry one mark each.

Roll No: KA040407003

Maximum Marks	60
Marks Scored	44
Percentage	73.33

S.NO.	Marks Percentage Break-Up	0-40%	41-60%	61-80%	81-90%	91-100%
1.	% of Student In Your Class	20.00	32.50	35.00	10.00	2.50
2.	% of Student in Your City	29.67	38.76	24.12	5.71	1.74
3.	% of Student in Your Zone	29.67	38.76	24.12	5.71	1.74
4.	% of Student in Your Region	42.30	35.31	17.05	4.26	1.08
5.	% of Student Internationally	35.16	38.46	19.92	4.65	1.82

↓
You are
Here

Roll No: KA040407003

AVERAGE MARKS ANALYSIS

Description	Average Marks
Your Marks	44.00
Average Marks in Your Class	35.83
Average Marks in Your City	31.28
Average Marks in Your Zonal	31.28
Average Marks in Your Region	28.27
Average Marks Internationally	29.89

YEAR WISE ANALYSIS

PAST 10 YEARS PERFORMANCE COMPARISON

Event Name: SOF-IMO (International Mathematics Olympiad)

Year	Class	School Rank	City Rank	Zonal Rank	Regional Rank	International Rank
2012-13	Not Participated					
2013-14	Not Participated					
2014-15	Not Participated					
2015-16	Not Participated					
2016-17	Not Participated					
2017-18	03	7	58	58	N.A.	60
2018-19	04	5	113	124	N.A.	182
2019-20	05	1	143	154	N.A.	379
2020-21	06	3	90	90	127	177
2021-22	07	11	344	344	611	1073

Data provided is for the Years' in which student appeared in IMO exam & as available in records.

Roll No: KA040407003

Science Olympiad Foundation,

a brainchild of leading academicians, scientists and media persons, was set up many years ago with the objectives of promoting interest in and identifying, nurturing and rewarding young talent in different academic subjects. This is set to be achieved through competitive exams, seminars and workshops, etc.

SOF CONDUCTS THE FOLLOWING SEVEN OLYMPIAD EXAMS:

SOF International General Knowledge Olympiad

SOF International English Olympiad

SOF National Science Olympiad

SOF International Mathematics Olympiad

SOF National Cyber Olympiad

SOF International Social Studies Olympiad

SOF International Commerce Olympiad

SOF has been partnering with leading organizations across the globe to add value to its Olympiad exams. Some of the organizations to have partnered SOF are The British Council, Tata Consultancy Services (TCS), The Ministry of Corporate Affairs through The ICSI, Techfest IIT Bombay, Wipro, LG, EFLU, Star Sports and National University of Singapore, among others.