

# International Math Olympiad Sample Paper Grade 2

### FREE IMO Pack worth Rs 7000

Book a trial class to avail



"

Cuemath is India's #1 math learning program for KG-10th class kids. Our proprietary learning methodology ensures children visualise, learn & become critical thinkers for jobs of the future.

-Manan Khurma, Cuemath Founder & CEO



#### **IMO 2019 - GRADE 2**

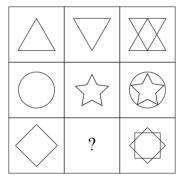
#### SAMPLE PAPER

#### **LOGICAL REASONING**

1. Raj enrolled in swimming classes on 11th March 20XX. He practices for 11 days and left for a trip for 3 days. He came back and again practices for 2 days. His practice finishes on-

MARCH							
S	М	Т	W	Т	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		

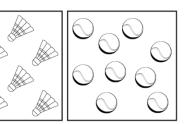
- (A) 23rd March
- (B) 28th March
- (C) 26th March
- (D) 27th March
- 2. Find the missing figure



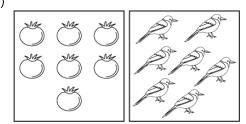


- 3. Neha has more notebooks than Ruhi. Rashmi has less number of notebooks than Alyssa. Ruhi has more notebooks than Alyssa. Who has the most number of notebooks?
  - (A) Alyssa
  - (B) Ruhi
  - (C) Neha
  - (D) Rashmi
- 4. If today is Tuesday, what day it was the day before Yesterday?
  - (A) Sunday
  - (B) Saturday
  - (C) Monday
  - (D) Friday
- 5. Which pair of cards have a sum of less than 15?

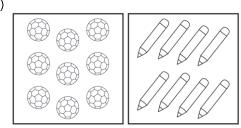
(A)



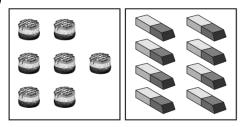
(B)



(C)



(D)





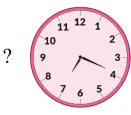
6. If all the vowels are removed from the given word, then \_\_\_\_\_ is the fifth letter from the right end.

#### KNOWLEDGE

- (A) K
- (B) N
- (C) W
- (D) D
- 7. Find the missing clock if the given pattern on the clocks is followed.



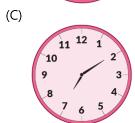


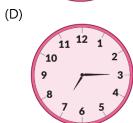


















What is used by a batsman in cricket?

(A)



(B)



(C)



(D)



- 9. Find the odd one out.
  - (A)



(B)



(C)

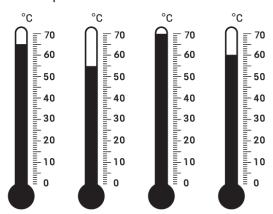


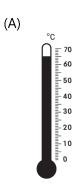
(D)

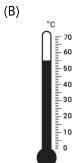




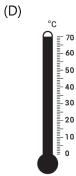
#### 10. Which thermometer shows the lowest temperature?













#### **MATHEMATICAL REASONING**

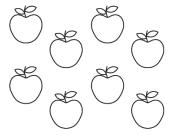
11. Which of the following correctly shows decreasing order of the following set of numbers?



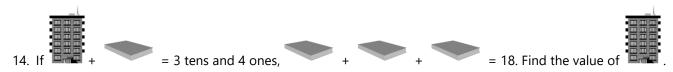
- (A) 679, 682, 631, 694
- (B) 694, 682, 679, 631
- (C) 631, 682, 679, 694
- (D) 631, 679, 682, 694



12. If stands for 16, find the value of-



- (A) 28
- (B) 24
- (C) 32
- (D) 36
- 13. Which of the following is more than 17 tens and 6 ones?
  - (A) 173
  - (B) 167
  - (C) 176
  - (D) 177

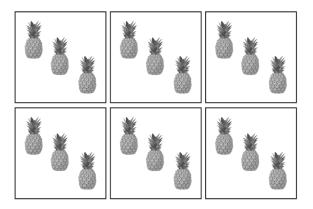


- (A) 24
- (B) 22
- (C) 20
- (D) 28



15. What is the missing number in the box?

- (A) 628
- (B) 727
- (C) 697
- (D) 717
- 16. 3 hundred 7 ones + 5 hundred 4 tens 3 ones = 8 hundred \_\_\_ tens \_\_\_ one
  - (A) 4, 0
  - (B) 1,3
  - (C) 5,0
  - (D) 4,3
- 17. Which of the following options best describes the figure shown below:



- (A) 3 + 6
- (B) 9 + 3
- (C) 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3
- (D)  $3 \times 6$
- 18. How many groups of 3 footballs can be formed from the given number of footballs?



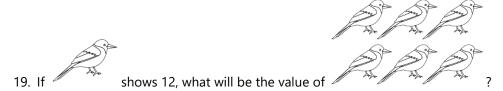






- (A) 7
- (B) 8
- (C) 9
- (D) 10





- (A) 60
- (B) 36
- (C) 48
- (D) 72
- 20. 71 more than 233 is-
  - (A) 3 hundred 4 ones
  - (B) 30 hundred 4 ones
  - (C) 3 hundred 4 tens
  - (D) 30 hundred 40 tens

#### **EVERYDAY MATHEMATICS**

21.	There are 111 chocolates in a box. Rahul took out 29 chocolates from the box. How many chocolates are still
	there in the box?
	(4) 03

- (A) 92
- (B) 82
- (C) 86
- (D) 96
- 22. A man had ₹329 in his purse. He had ₹ 461 in his pocket. How much more money he had in his pocket?
  - (A) ₹ 122
  - (B) ₹ 142
  - (C) ₹ 132
  - (D) ₹ 137
- 23. If there are 24 pencils in a box. How many pencils Renu can keep in 4 similar boxes if she wants equal number of pencils in each box?
  - (A) 4
  - (B) 6
  - (C) 8
  - (D) 3
- 24. There are 198 animals in a zoo, there are 29 tigers, 76 elephants, and some birds. How many birds are there in the zoo?
  - (A) 115
  - (B) 105
  - (C) 93
  - (D) 85



25.	Raj started playing at 4 pm and played for 40 mins. Then he worked on his homework for 25 mins. What is the time when he finished his homework?
	(A) 04:25 pm (B) 04:40 pm (C) 05:15 pm (D) 05:05 pm
26.	Sonu and Monu together baked 281 cakes. If Sonu baked 159 cakes, how many does Monu bake?
	(A) 132 (B) 112 (C) 126 (D) 122
27.	There are 9 horses and 12 hens at a farm. What will be the total number of legs of both the animals together in the farm?
	(A) 42 (B) 63 (C) 60 (D) 72
28.	Identify the number:
	<ul><li>i. The digit at the hundreds place is thrice the digit at the ones place.</li><li>ii. The tens digit is the difference between the hundreds and one's digit.</li><li>iii. The place value of a hundred's place digit is 63 tens more than 270.</li></ul>
	(A) 642 (B) 963 (C) 321 (D) 431
	<b>ions Q29-Q30)</b> The given pictograph shows the number of dolls sold over a period of four months. Study the and answer the questions that follow.
	JULY AUGUST SEPTEMBER OCTOBER  Each indicates 3 dolls.

29. Find the total number of dolls sold by the shop over the four months.

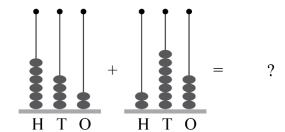
- (A) 81
- (B) 84
- (C) 87
- (D) 90

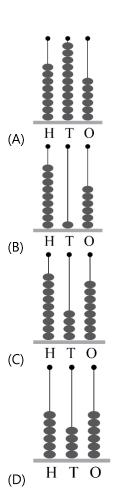


- 30. Find the difference in the number of dolls sold in the month of September & October.
  - (A) 12
  - (B) 10
  - (C) 9
  - (D) 15

#### **ACHIEVERS SECTION**

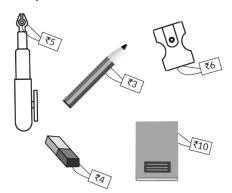
#### 31. Find the value of -





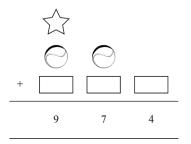


32. Rhea buys 4 pens, 5 pencils, 3 erasers, 2 sharpeners, and 7 notebooks from the market.



How much money she will have to pay?

- (A) ₹119
- (B) ₹ 109
- (C) ₹111
- (D) ₹ 129
- 33. Each shape stands for a number.

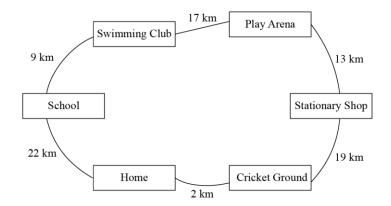


and and	
Find the value of $\bigvee$ , $\bigvee$	respectively.

- (A) 4,3,2
- (B) 2,4,3
- (C) 2,3,4
- (D) 4, 2,3



34. Saurabh went to the Play Arena on Day 1 from his home. He went to the swimming club from the cricket ground on Day 2.



He followed the following routes:

Day 1: Home → School → Swimming Club → Play Arena

Day 2: Cricket Ground → Stationary shop → Play Arena → Swimming Club

Which route is the shortest and by how much distance?

- (A) Route taken on Day 1; 1 km
- (B) Route taken on Day 2; 1 km
- (C) Route taken on Day 1; 2 km
- (D) Route taken on Day 2; 2 km
- 35. The picture graph shows the type of chocolate that children like to eat.

Dairy Milk	Kinder Joy	Snickers	Dark Milk Chocolate
$\Diamond$	$\Rightarrow$	$\Rightarrow$	$\Rightarrow$
$\Diamond$	$\Diamond$	$\Diamond$	$\Rightarrow$
$\Diamond$	$\Rightarrow$	$\Rightarrow$	
	$\Rightarrow$	$\Rightarrow$	
	$\Rightarrow$		

Each represents 6 children

How many children who eat Snickers & Kinder Joy?

- (A) 24
- (B) 54
- (C) 48
- (D) 36



#### **ANSWERS**

1. (D)	2. (D)	3. (C)	4. (A)	5. (B)	6. (B)	7. (B)	8. (B)	9.(D)
10.(B)	11. (B)	12. (C)	13. (D)	14. (D)	15. (D)	16. (C)	17. (D)	18. (C)
19. (D)	20. (A)	21. (B)	22. (C)	23. (B)	24. (C)	25. (D)	26. (D)	27. (C)
28. (B)	29. (C)	30. (A)	31. (B)	32. (D)	33. (C)	34. (A)	35. (B)	



#### **SOLUTION**

#### **LOGICAL REASONING**

1. Raj enrolled in swimming classes on 11th March 20XX.

He will practice for 11 days i.e., till 21st March 20XX  $\,$ 

He will be on trip for 3 days i.e., till 24th March

He comes back and practices for 3 more days, i.e., until 27th March.

- 2. Answer: Option D
- 3. Neha has more notebooks than Ruhi.

Neha > Ruhi

Alyssa > Rashmi

Ruhi > Alyssa

Combining the conditions, we get-

Neha > Ruhi > Alyssa > Rashmi

Neha has the most number of notebooks.

4. Tuesday

1

Monday (Yesterday)

1

Sunday (Day before Yesterday)

- 5. Answer: Option B
- 6. The word 'KNOWLEDGE' is written as KNWLDG without vowels. The fifth letter from the right end is 'N'
- 7. In each of the images, the time increases by 20 mins.



- 9. Only in Figure D, both are squares.
- 10. Answer: Option B



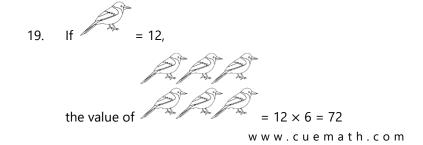
#### **MATHEMATICAL REASONING**

- 11. Answer: Option B
- 12. If stands for 16, the value of each apple = 4

  Value of 8 apples = 32.
- 13. 17 tens and 6 ones = 170 + 6 = 176

From the above two conditions we can conclude that,

- 15. 531 + 97= 628 and **717** 89 = 628
- 16. 3 hundred 7 ones = 307 5 hundred 4 tens 3 ones = 543 '307 + 543 = 850 8 hundred **5** tens **0** ones
- 17. There is a total of 18 pineapples, which is represented by " $3 \times 6$ "
- 18. 27 footballs can be grouped into 9 groups of 3 footballs each.





20. 71 + 233 = 304 = 3 hundred and 4 ones.

#### **EVERYDAY MATHEMATICS**

21. No of chocolates in the box = 111

Rahul took out = 29 chocolates

No of chocolates left in the box = 111 - 29 = 82.

22. The man had ₹329 in his purse.

He had ₹461 in his pocket.

The extra amount he has in his pocket than his purse = ₹ 461 - ₹ 329 = ₹ 132

23. If there are 24 pencils in a box.

If Renu now has 4 similar boxes, then 24 pencils need to be kept in 4 boxes

4 boxes → 24 pencils

$$1 \text{ box} = \frac{24}{4} = 6 \text{ pencils}$$

- : Renu can keep 6 pencils in 4 similar boxes.
- 24. There are 198 animals in the zoo

Total number of tigers and elephants = 29 + 76 = 105. The remaining number is the number of birds = 198 - 105 = 93

25. Raj started playing at 4 pm and played for 40 mins, i.e., till 04:40 pm

Then he worked on his homework for 25 mins, i.e., till 05:05 pm

26. Sonu and Monu baked 281 cakes.

Sonu baked 159 cakes

Monu baked the remaining = 281 - 159 = 122 cakes

27. There are 9 horses and 12 hens at the farm.

Each horse has 4 legs, so 9 horses will have  $9 \times 4 = 36$  legs

Each hen has 2 legs, so 12 hens will have  $2 \times 12 = 24$  legs

The total number of legs = 36 + 24 = 60 legs



28. 63 tens more than 270 = 630 + 270 = 900

The hundred's place digit 9 is thrice of the one's place digit '3'

The difference between 9 & 3 is 6, which is the tens digit.

- 29. The total number of dolls sold by the shop over the four months = 21 + 24 + 15 + 27 = 87
- 30. The number of dolls sold in the month of September = 15

The number of dolls sold in the month of October = 27

The difference between the number of dolls sold = 12

#### **ACHIEVERS SECTION**

31. Answer: Option B

32. Value of 4 pens = ₹ 20

Value of 5 pencils = ₹ 15 Value of 3 erasers = ₹ 12 Value of 2 sharpeners = ₹ 12 Value of 7 notebooks = ₹ 70 Total money paid by Rhea = ₹ 129

- <sup>33.</sup> Answer: Option C
- 34. Distance covered on Day 1: Home → School → Swimming Club → Play Arena = 48 km

  Distance covered on Day 2: Cricket Ground → Stationary shop → Play Arena → Swimming Club = 49 km

  The route taken on Day 1 is the shortest by 1km.
- 35. The number of children who eat both Snickers & Kinder Joy =  $9 \times 6 = 54$



# The International Math Olympiad pack worth Rs 7000 comprises

- 7 Mock ExamsStrategy E- Book
  - 3 practice books for School Math, Aptitude

#### Book a trial class to avail

**Latest Information** about IMO Exam

Know more →

Math Worksheets for all Classes

Know more →

Free IMO Mock Tests for Class 1 to 10

Know more →

**Important Math** Formulae Sheets

Know more →

**NCERT Video Solutions** for Class 7 to 10

Know more →

**Great Math** Tips and Tricks!

Know more →

Cuemath workbooks and activities were a lot of fun to do. The IMO pack has a lot of tips & tricks on how to ace all kinds of exams



Rahul, IMO Rank 2

## hank you for downloading the IMO Sample Paper :)

# Your kid can be the next school topper

- Topic wise practise & mock tests
- Build speed and accuracy
- Instant doubt clearing
- Certified Math Expert



9 out of 10 Cuemath students score 90+ in math exams within 12 weeks.

At Cuemath, children learn math with

180+

specially designed worksheets

15+

math visualisations

500+

puzzle cards for logical reasoning 150+

tab exercises for speed & accuracy

**BOOK A FREE TRIAL** 

