SAMPLE PAPER

S O F
SCIENCE OLYMPIAD FOUNDATION

I M O SOF

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 (2 digit numbers), Addition, Subtraction, Length, Weight, Time, Money, Geometrical Skills, Patterns, Odd One Out, Series Completion, Problems Based on Figures.
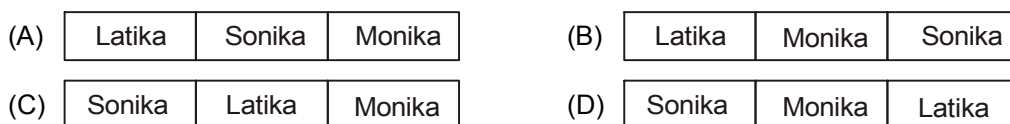
International Mathematics Olympiad

1. Which of the following shows correct descending order?

(A)
```
10
  12
    13
      15
```
(B)
```
10
  9
    8
      7
```
(C)
```
15
  16
    17
      18
```
(D)
```
20
  19
    17
      25
```
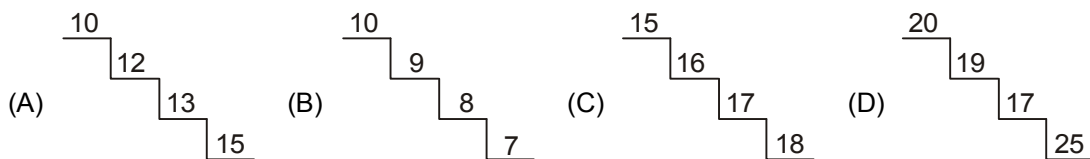
2. Latika, Monika and Sonika are sitting in a row. Latika is sitting between Monika and Sonika. Which of the following is the correct order?
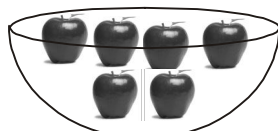
(A)

Latika	Sonika	Monika

(B)

Latika	Monika	Sonika

(C)

Sonika	Latika	Monika

(D)

Sonika	Monika	Latika

3. The 🐸 can jump two steps at a time. If it is at 5th step, where will it be after 2 jumps?

(A)

(B)

(C)   (D)
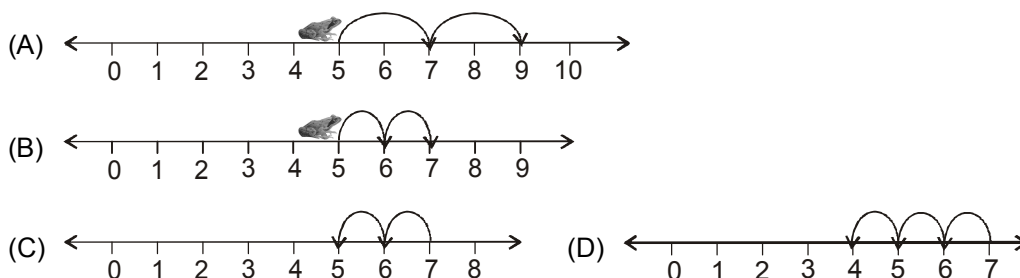
4. Four friends are celebrating their birthdays. The candles on cake shows their ages. Who is the eldest?

(A) Ankit   (B) Parul   (C) Ruchi   (D) Anu
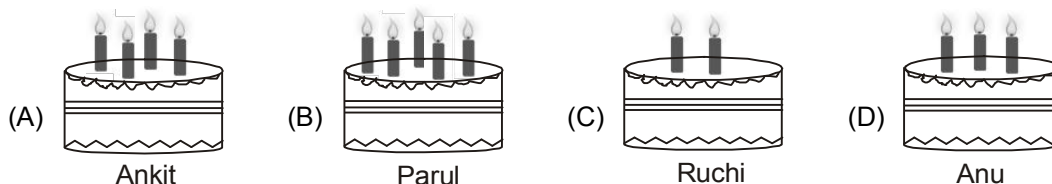
5. Given two baskets shows the number of apples.
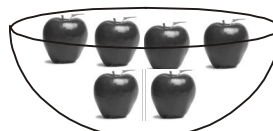
Yellow basket   Red basket

Which is correct statement?
(A) Yellow basket has <u>more</u> apples than red basket.
(B) Red basket has <u>more</u> apples than yellow basket.
(C) Both red and yellow baskets have equal apples.
(D) Red basket has <u>less</u> apples than yellow basket.

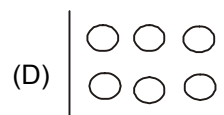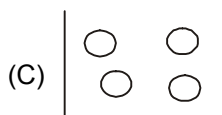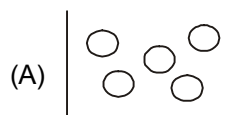**6.** Which number in the following number pattern is just before 30?

22	24	26	28	30

(A) 26   (B) 28   (C) 24   (D) 22

7. Which figure is in the centre?

(A) 　　(B) 　　(C) 　　(D)
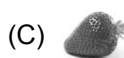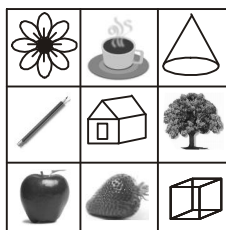
8. Which box shows zero stones in it?

(A) 　　(B) 　　(C) 　　(D)

9. The shape of is looking like a

(A) Cone　　　　(B) Cylinder　　　(C) Sphere　　　(D) Cube

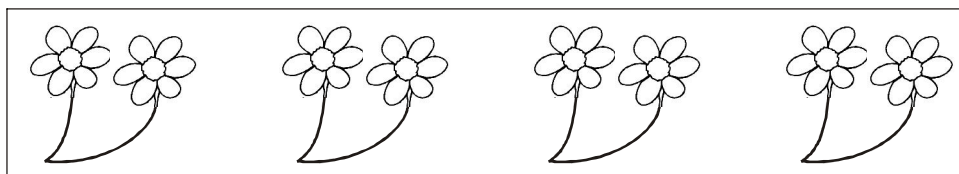**10.** Add me to 4 and subtract me from 12, the answer is the same. Who am I?

(A) 14　　　　(B) 10　　　　(C) 6　　　　(D) 4

11. Look at the picture given below.

Which of the following number sentence shows above picture?

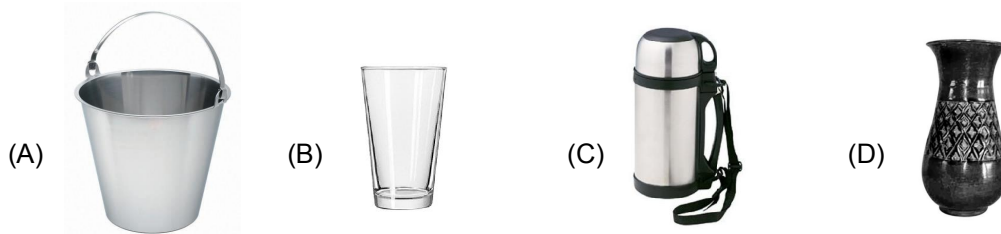(A) 2 + 2 + 2　　(B) 2 + 2 + 4 + 4　　(C) 2 + 2　　(D) 2 + 2 + 2 + 2

12. The given below teddy bears are to be distributed equally between two friends.
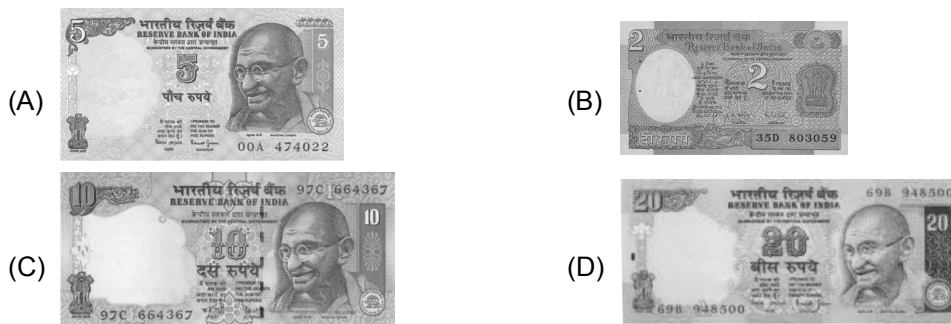

Which of the following shows share of 1 friend?

(A) 　　　　(B)

(C) 　　　　(D)

13. Which of the following shows the object which can hold maximum water?

(A)　　　　　　(B)　　　　　　(C)　　　　　　(D)

14.

Which of the following shows the total value of above coins?

(A) 　　　　　　(B)

(C) 　　　　　　(D)

15. Renuka bought 12 blue candies and 11 orange candies. How many candies did she buy?

(A) 12 + 11　　(B) 12 + 12　　(C) 12 – 11　　(D) 12 + 13

16. Sonali bought the following items.

How much money did she spend?

(A) ₹ 27　　(B) ₹ 15　　(C) ₹ 12　　(D) ₹ 17

17. Which subtraction gives 42 as the answer?

(A) 99 – 42　　(B) 98 – 56　　(C) 84 – 40　　(D) 82 – 30

18. Chintu has 24 balls. He gave 2 balls to his sister. How many balls does Chintu has now?

(A) 22 balls　　(B) 20 balls　　(C) 18 balls　　(D) 21 balls

19. Rahul walked for 2 kms everyday for 4 days. How much distance did he walk?

(A) 8 kms　　(B) 9 kms　　(D) 10 kms　　(D) 12 kms

20. To get 8, Ria has to add 4 _____ times.

(A) Six　　(B) Four　　(C) Ten　　(D) Two

1. NAME : If your name is SACHIT A IYER, 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

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

← Darken the circle

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.**

Darken the circle →

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

GENDER

MALE ● **FEMALE** ○

CORRECT ☞ ●
way to darken the circle

WRONG ☞
way to darken the circle

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

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

International Mathematics Olympiad

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

ANSWERS

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