IMO

CLASS 2

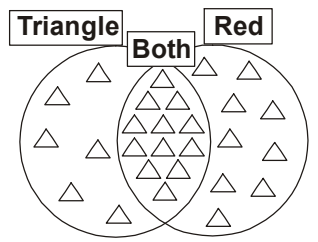# SAMPLE PAPER

SECTION I : LOGICAL REASONING

1. Look at the given Venn diagram. How many are both triangle and red ?

(A) 15
(B) 16
(C) 14
(D) 12

2. Look at this pattern.

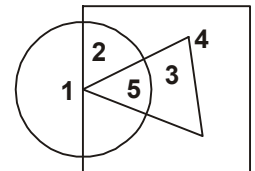Which of the following has the same representation as the above given pattern ?

(A) AB
(B) ABC
(C) ABB
(D) None of these

3. If 😊 + 😊 = ✡, what will be the value of 😊 + 😊 + 😊 + 😊 ?

(A) ✡ ✡

(B) ✡ ✡ ✡ ✡

(C) ✡

(D) ✡ ✡ ✡

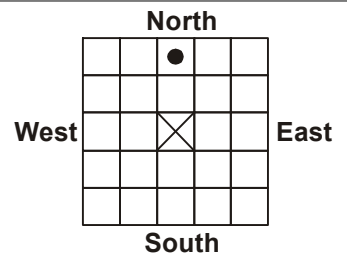**4.** Which number belongs to circle, square and triangle ?

(A) 1
(B) 2
(C) 5
(D) 3

5. If Δ means '+', P means 7, Q means 15, then P Δ Q equals ____.

(A) 23
(B) 22
(C) 21
(D) 20

6. In which direction × has to move to reach ● position ?

(A) East
(B) West
(C) North
(D) South

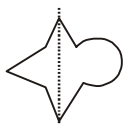**7.** Sonika has some square cards. If she put them one over the other which geometrical figure will she get ?

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

8. **"Detect my father's age"** Rohan said to Rahul. **"My father is 20 yrs older than me. If my age is 7 yrs, what is my father's age?"**

   **(A)** 25 yrs   **(B)** 27 yrs   **(C)** 22 yrs   **(D)** 17 yrs

9. **Piyush is making a bracelet for his friend using some beads. The beads are kept in a particular pattern. If the rule is "2 spheres, 2 cones and 1 square" which of the following is Piyush's band ?**

   (A)   **(B)**   **(C)**   **(D)**

10. **In a swimming competition the player who finishes the race first is the winner. If the adjoining table shows the score cards of 4 participants, who is the winner ?**

    (A) Rahul   **(B)** Ritesh

    (C) Rohit   **(D)** Romesh

Score Cards	
Rahul	2 mins
Ritesh	50 secs
Rohit	10 mins
Romesh	3 mins

11. **Which of the following figures will exactly overlap when folded along the dotted line ?**

    (A)   **(B)**   **(C)**   **(D)**

12. **Study the given pictures.**

    ₹182   ₹150
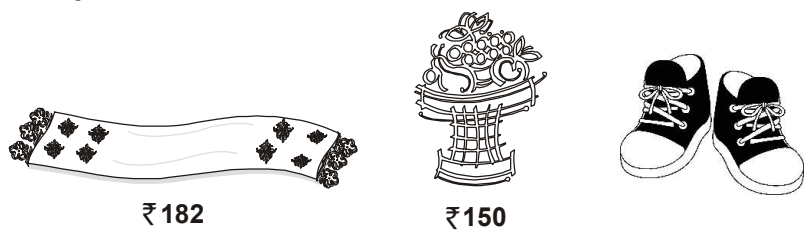
    A pair of boots cost ₹ 20 less than a scarf. What is the total cost of the above 3 items?

    (A) ₹ 292   **(B)** ₹ 396   **(C)** ₹ 494   **(D)** ₹ 532

13. **Which of the following locks can be opened by using the given key ?**

    (A)   **(B)**

    (C)   **(D)**

14. **Which of the following is placed in the bottom right ?**

    (A)   **(B)**
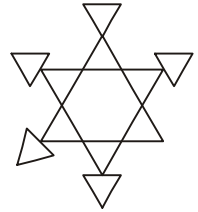
    (C)   **(D)**

15. Which of the following pair of figures together make a big triangle ?

(A) (B) (C) (D)
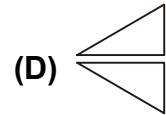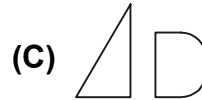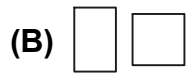
16. How many triangles are there ?
(A) 12
(B) 13
(C) 10
(D) 14

17. P is taller than Q and Q is taller than S. Who is the shortest among them ?
(A) P
(B) Q
(C) S
(D) Can't be determined

18. Which of the following is lightest ?
(A) 1 cotton ball
(B) 1 mango
(C) 1 book
(D) 10 kg rice

19. In a Diwali festival a scheme is launched. The person with a green ticket and an even number will be the winner of the lucky draw. Which of the following tickets is the winning ticket ?

(A) Green 471
(B) Blue 472
(C) Green 480
(D) Green 577

20. Which is the fifth object ?
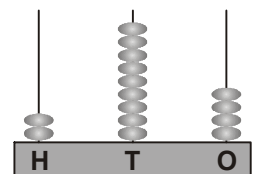
First   Last

(A) (B) (C) (D)

SECTION II : MATHEMATICAL REASONING

21. Look at the given abacus carefully. If 1 more bead is added to ten's bar, the number it will show is _____ .
(A) 2105
(B) 2104
(C) 304
(D) 314

22. Twenty five movie tickets were distributed among 5 friends. Which of the following figures shows each friend's share ?

(A) (B) (C) (D)

3

23. **Which number box matches with the number sentence written on the given pencil ?**

Two hundred five

(A) | 250 | (B) | 205 | (C) | 200 | (D) | 210 |

24. **Monica came back from school at 3:00 pm. She went for music class after 1 hr and came back after 30 mins. At what time did she come back ?**

(A) 4:00 pm   (B) 5:00 pm   (C) 4:30 pm   (D) 5:30 pm

25. **It was raining outside. Sonia was standing in her balcony and counted 12 umbrellas on the road. She observed 2 children under each umbrella. How many children in all did she see ?**
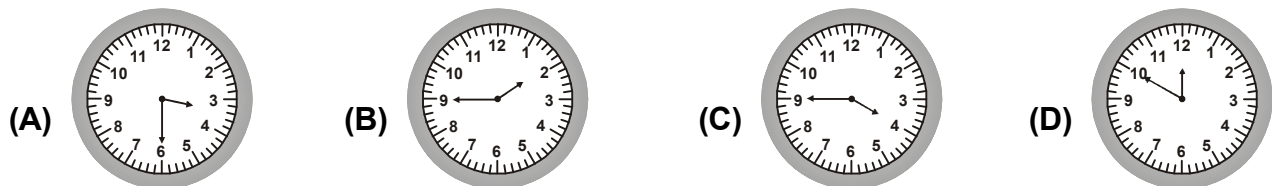
(A) 12   (B) 48   (C) 24   (D) 20

26. **There are 9 apples. Mehul has to put equal number of apples in each of her 3 friend's baskets. Which basket shows the share of her 2 friends together ?**

(A)

(B)

(C)

(D)

27. **Thirty six rupees and fifty paise is the cost of one article sold in a shop. Which article are we talking about ?**

(A) ₹ 36.05

(B) ₹ 26.50

(C) ₹ 36.50

(D) ₹ 3.60
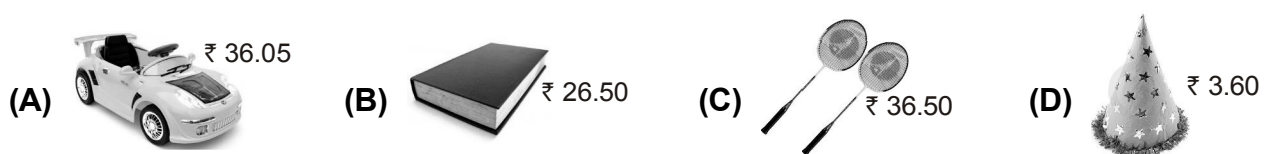
28. **Which of the following clocks shows half past 3 ?**

(A)   (B)   (C)   (D)

29. **Mishti shares her birthday with Chacha Nehru. 10 days after her birthday is Manya's birthday. When will Manya's birthday be celebrated ?**

(A) 14 November   (B) 24 November   (C) 28 November   (D) 30 November

30. Which of the following is the eleventh month if first month of the year is January ?

(A) November   (B) December   (C) March   (D) February

31. Which of the following holds least water ?

(A)
Cup

(B)
Bucket

(C)
500 ml bottle

(D)
Spoon

32. Aashka is making a pattern. Which of the following objects will she use to trace the pattern of square ?

(A)   (B)   (C)   (D)

33. Which of the following numbers is same as 5 more than 20 ?

(A) 5 less than 20   (B) 5 less than 30   (C) 10 less than 20   (D) 10 more than 20

34. Which number can replace X ?

$$\begin{array}{r} 200 \\ +197 \\ \hline \boxed{39X} \end{array}$$

(A) 7   (B) 0   (C) 1   (D) 2

35. The woollen clothes are worn when the temperature in a city is less than 10°C. In which city did people start wearing woollen clothes ?

(A) Delhi 13°C   (B) Mumbai 15°C   (C) Jammu 9°C   (D) Shimla 11°C

36. A rabbit was sitting on 10. He jumped 5 times to reach 5. Which of the following number sentences shows this statement ?

0 1 2 3 4 5 6 7 8 9 10 11 12 13

(A) 5 + 0 = 5   (B) 10 – 5 = 5   (C) 10 + 5 = 15   (D) 10 ÷ 5 = 2

37. The adjoining clocks show when my friends started piano session on Saturday afternoon. Who started the practice earliest ?

(A) Maria

(B) Hari

(C) Hemant

(D) Radhika
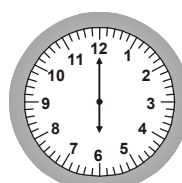
Hari   Maria   Hemant   Radhika

38. What is the temperature shown by the thermometer ?

(A) 30°C

(B) 35°C

(C) 36°C

(D) 40°C

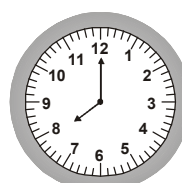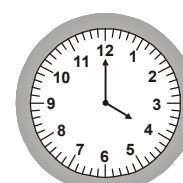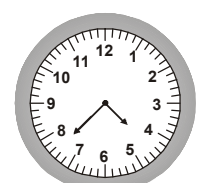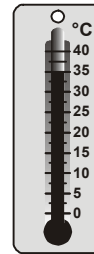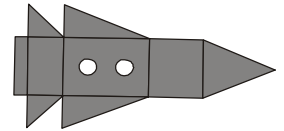**39. What is the difference between the number of triangles and circles in the adjacent figure ?**

(A) 5

(B) 4

(C) 3

(D) 2

40. If ▭ = hundreds, ▯ = tens and ◯ = ones, then ▭▭▭▭▭ + ▯▯ + ◯◯ equals ____.

(A) 532

(B) 522

(C) 512

(D) 502

SECTION III : EVERYDAY MATHEMATICS

41. I love grapes. My mother gave me two types of grapes. I counted 35 green grapes and 29 black grapes. Together, how many grapes do I have ?

(A) 63

(B) 53

(C) 43

(D) 64

42. My story book has 152 pages. I have read 36 pages. How many pages are left ?

(A) 112

(B) 116

(C) 126

(D) 136

43. There are three 🐱. Each 🐱 drank 4 bottles of milk. How many bottles of milk did they drink ?

(A) 12

(B) 22

(C) 20

(D) 23

44. How many days are there in two weeks ?

(A) 14

(B) 7

(C) 10

(D) 15

45. A wooden box has 108 pencils. How many pencils will be there in 7 such boxes ?

(A) 756

(B) 706

(C) 750

(D) 765

46. A student will be given a prize if he shoots at least 8 out of 10 balloons in 10 shots. Who among the following will get a prize?

(A) 7 out of 10 shots

(B) 5 out of 10 shots

(C) 0 out of 10 shots

(D) 9 out of 10 shots

47. **20 mangoes are shared equally among 5 friends. How many mangoes will each friend get ?**

(A) 5   (B) 4   (C) 9   (D) 10

48. **Manav's plant is 5 cm taller than Manali's plant. If the height of Manali's plant is 15 cm, then the height of Manav's plant is _____**

(A) 20 cm   (B) 10 cm   (C) 12 cm   (D) 18 cm

49. **A monkey is on 5th step of a staircase. He jumps two steps up and four steps down. On which step is he now ?**

(A) 3rd step   (B) 2nd step   (C) 10th step   (D) 12th step

50. **A 2 kg sweet box can hold 12 pieces of gulab jamun. How much is the weight of 6 pieces of gulab jamun ?**

(A) Half kg   (B) 2 kg   (C) 1 kg   (D) 10 kg

SPACE FOR ROUGH WORK

ANSWER KEYS

1. (D)	**2.** (A)	**3.** (A)	**4.** (C)	**5.** (B)	**6.** (C)	**7.** (D)	**8.** (B)	**9.** (A)	
10. (B)	**11.** (A)	**12.** (C)	**13.** (C)	**14.** (A)	**15.** (D)	**16.** (B)	**17.** (C)	**18.** (A)	
19. (C)	**20.** (A)	**21.** (C)	**22.** (C)	**23.** (B)	**24.** (C)	**25.** (C)	**26.** (C)	**27.** (C)	
28. (A)	**29.** (B)	**30.** (A)	**31.** (D)	**32.** (B)	**33.** (B)	**34.** (A)	**35.** (C)	**36.** (B)	
37. (C)	**38.** (B)	**39.** (C)	**40.** (B)	**41.** (D)	**42.** (B)	**43.** (A)	**44.** (A)	**45.** (A)	
46. (D)	**47.** (B)	**48.** (A)	**49.** (A)	**50.** (C)					