DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Name:..

Arifinkidz Roll No:...

Total Questions: 50　　　　　　　　　　　　　　　　Time: 60 Minutes

ARIFIN kidZ

SMO
SUMMER MATHEMATICS OLYMPIAD
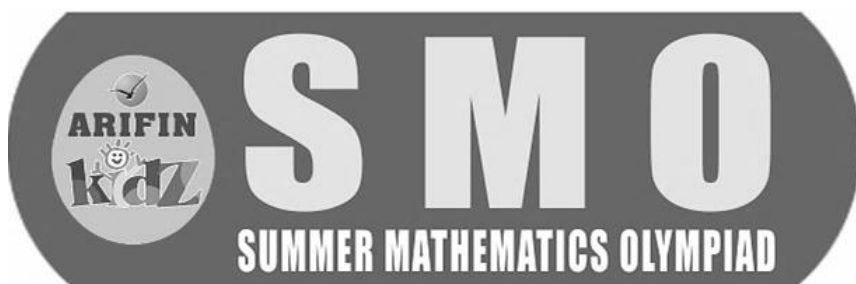
## Arifinkidz Summer Maths Olympiad 2024

CLASS 5

SET-A

Guidelines for the Candidate

- You will get additional 5 minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
- Write your **Name, School** and **Arifinkidz Roll No.** clearly on the OMR Sheet.
- The Question Paper comprises four sections:
  Logical Reasoning, Mathematical Reasoning, Everyday Mathematics (45 Questions) **and Achievers Section** (5 Questions).
  Each question in Achiever Section carries 3 marks, whereas all other questions carry one mark each.
- All questions are compulsory. There is no negative **(-)** marking.
- All questions are (MCQ) types. There is only ONE correct answer. Choose only ONE option for an answer.
- To mark your choice of answer by darkening the circles on the OMR Sheet, Use **HB Pencil** or **Blue/Black ball point pen** only. E.g.
  Question: Radha bought 10 candies. She ate 4 candies. How many candies are left with her?
  A. 5　　　　　　　B. 4　　　　　　　C. 6　　　　　　　D. 7

  As the correct answer is option C, you must darken the circle corresponding to option C on the OMR Sheet.　　Ⓐ Ⓑ ● Ⓓ
- Return the OMR Sheet to the invigilator at the end of the exam.

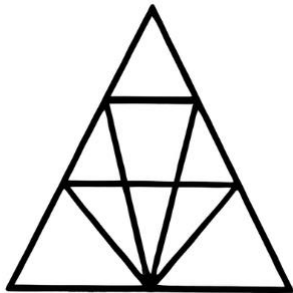1. Anuj is facing the Temple. What will he be facing if he turns 270° anticlockwise?
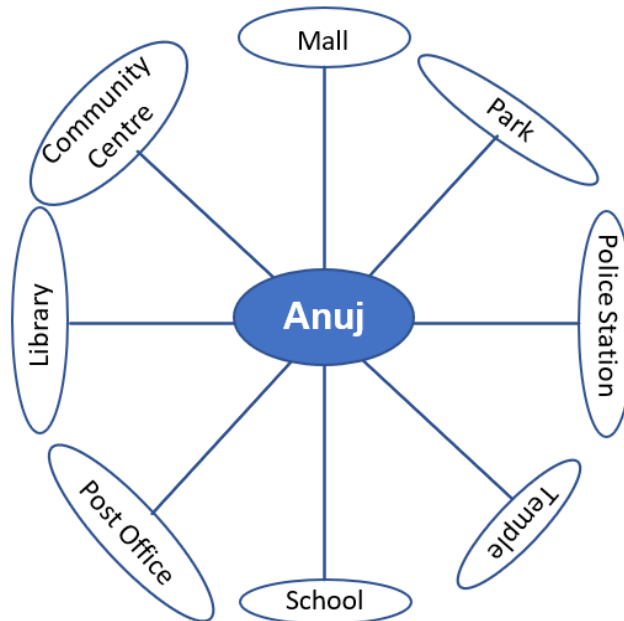
(A) Police Station (B) School (C) Library (D) Post-office

2. Complete the series:

8, 6, 9, 23, 87, _____.

(A) 236 (B) 324 (C) 429 (D) 218
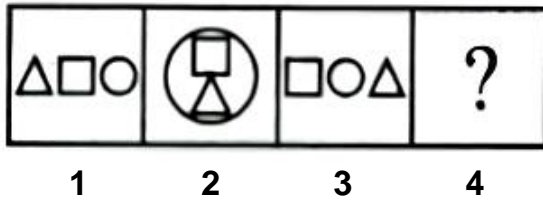
3. Find the number of triangles in the given figure?
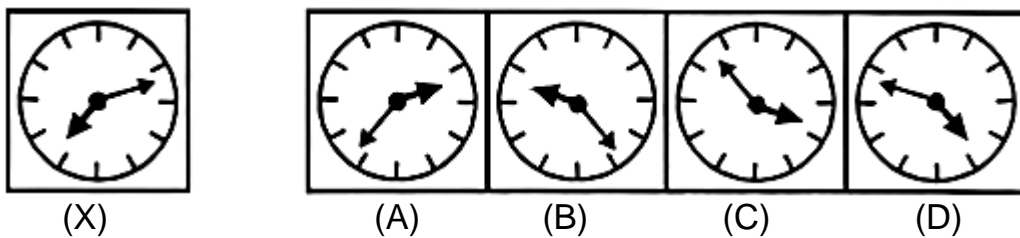

(A) 18 (B) 21 (C) 27 (D) 29

◄SPACE FOR ROUGH WORK►

4. There is a certain relationship between figures 1 and 2. Identify the relationship and establish the similar relationship between figures 3 and 4 by selecting a figure from the options.

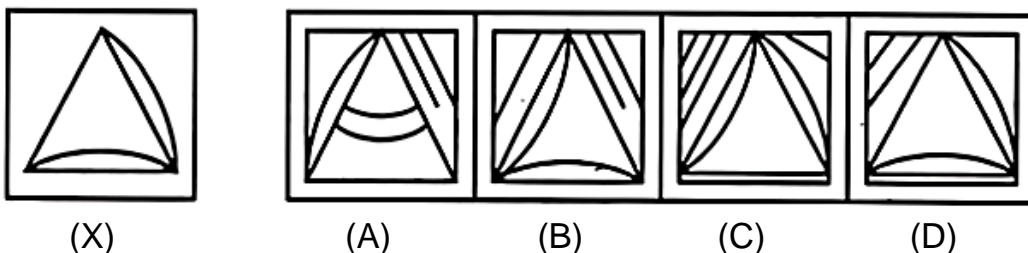1   2   3   4

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

5. Choose the correct mirror image of the given figure(x) from amongst the four alternatives?

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

6. If in a certain code 'ROAR' is written as 'URDU' then how is 'URDU' written in that code?

(A) ROAR   (B) XUGX   (C)VZCP   (D) VXDQ

7. Find out the alternative figure which contains figure (X) as its part.

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

◄SPACE FOR ROUGH WORK►

8. If A, C, and B, D exchange their positions and then A and B move diagonally and meet at the middle of the rectangle, then the direction of 'B' with respect to 'C' is _____.
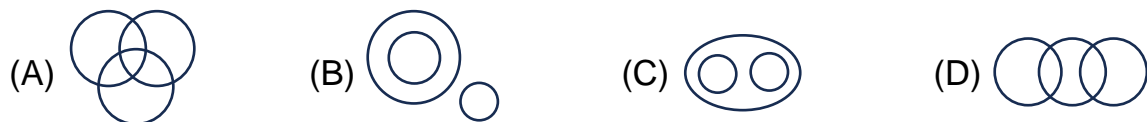
D   C

A   B

(A) South-east   (B) North-east   (C) North-west   (D) South-west

---

9. Select a combination of numbers from the options, which will form a meaningful word.

R	I	A	H	E	T	P	S	T
1	2	3	4	5	6	7	8	9

(A) 1, 2, 3, 4, 5, 6, 7, 8, 9   (B) 2, 5, 1, 4, 3, 6, 7, 8, 9

(C) 6, 4, 5, 1, 3, 7, 2, 8, 9   (D) 4, 2, 5, 1, 6, 8, 7, 3, 9

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10. Which of the following Venn diagrams best represents the relationship amongst colours, white and green?

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

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11. Which word does not belong with the others? (odd one out).

(A) engine   (B) tyre   (C) car   (D) steering wheel
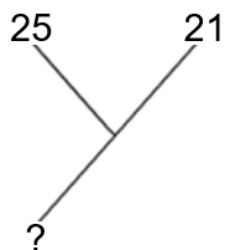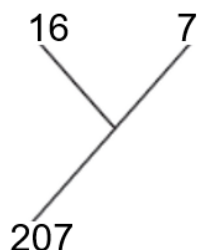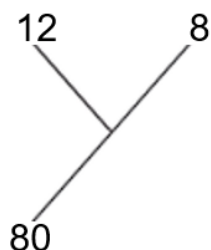
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12. Complete the series.

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

13. Pointing towards a man, a woman said, "His mother is the only daughter of my mother". How is the woman related to the man?

(A) Grandmother (B) Mother (C) Sister (D) Daughter

14. Which one will replace the question mark?

12   8   16   7   25   21

80   207   ?

(A) 184 (B) 210 (C) 241 (D) 425

15. In a row all persons are facing north, Rakesh is 33rd from the left end and in the right side of Rakesh, there are only 18 persons. Find out the total number of persons in this row.

(A) 50 (B) 51 (C) 49 (D) 52

MATHEMATICAL REASONING

16. How many prime numbers are there between 35 and 56 ?

(A) 4 (B) 3 (C) 6 (D) 5

17. In 52449485, the sum of place values of 4's is _____ more than place value of 8 at the tens place.

(A) 439920 (B) 440320 (C) 440230 (D) 404230

18. Roman numerals for 598 is

(A) DCXVIII (B) DCCXVII (C) XDCVII (D) DXCVIII

◄SPACE FOR ROUGH WORK►

19. Sekhar drove from Bhubaneswar to Sambalpur as per the time shown in the clocks. How long did he drive? (He started and reached on the same day)


Left Bhubaneswar   Arrived Sambalpur

(A) 7 hours 25 minutes   (B) 7 hours 20 minutes

(C) 6 hours 20 minutes   (D) 6 hours 25 minutes

_____

20. What is the missing value in the given mathematical statement?

0.35 x 13 = 0.35 x 2 + 0.35 x 3 + 0.35 x 1 + 0.35 x _____

(A) 3   (B) 7   (C) 4   (D) 6

_____

21. Which smallest number should come in the place of '*' to make the number divisible by 3?

573 *4

(A) 5   (B) 2   (C) 4   (D) 7

_____

22. Subtract 97.54 from the sum of 236.47 and 47.28.

(A) 186.21   (B) 268.12   (C) 168.21   (D) 178.31

_____

23. How many packets, each with the capacity of 0.8 kg can be formed with 12 kg of sugar?

(A) 4   (B) 8   (C) 15   (D) 16

_____

◄SPACE FOR ROUGH WORK►

Direction (24-25): The given graph shows the number of toy cars some children have.
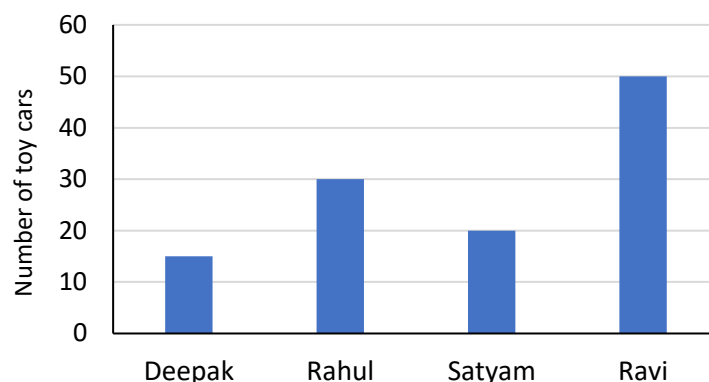
24. If 4 toy cars are sold for ₹52/-, then how much will the children earn if they sell all their toy cars ?

    (A) ₹1495 /-   (B) ₹1985/-   (C) ₹1975/-   (D) ₹1857/-

___

25. If Satyam gives 10 toys to Deepak, then how many toys Satyam will have less than Deepak?

    (A) 5   (B) 15   (C) 20   (D) 10

___

26. Find the greatest number which divides 72 and 96 leaving no remainder in each case?

    (A) 12   (B) 48   (C) 24   (D) 18

___

27. Which of the following shows the common factors of 15 and 18?

    (A) 1 and 2   (B) 3 and 5   (C) 5 and 9   (D) 1 and 3

___

28. 1 million is _____.

    (A) 1 crore   (B) 0.1 crore   (C) 10 crore   (D) 2 crores

___

29. Express $\frac{7}{10}$ of 5 kg in grams.

    (A) 35 gm   (B) 35000 kg   (C) 3500 gm   (D) 350 gm

___

◀SPACE FOR ROUGH WORK▶

30. Using all the given digits form the greatest possible 6-digit even number, if repetition of digits is allowed.

9	5	0	6

(A) 965000   (B) 996650   (C) 999560   (D) 999650

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31. Some symbols are represented by letters shown below.

+	−	×	÷
P	Q	R	S

Then 28 S 2 P 6 Q 3 R 1 =

(A) 17   (B) 16   (C) 10   (D) 18

---

32. If the following numbers are arranged in descending order, what will be the middle digit of the number, which will be exactly in the middle?

216, 473, 327, 319, 864, 454, 726

(A) 2   (B) 6   (C) 5   (D) 7

---

33. What is the remainder when 786859 is divided by 7?

(A) 4   (B) 3   (C) 5   (D) 6

---

34. How many English alphabets are symmetrical?

(A) 26   (B) 12   (C) 19   (D) 16

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35. If ★+★+★+♥+♥ = 135 and ★+♥+♥ = 59, then ★−♥ = ?

(A) 22.5   (B) 29   (C) 27.5   (D) 38

◄SPACE FOR ROUGH WORK►
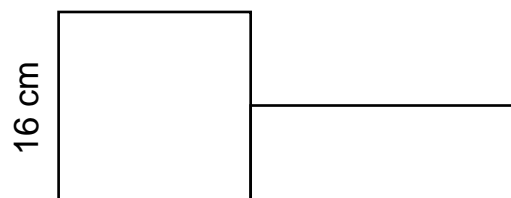
36. A bus travelled 738 km in 9 hours. How far did it travel in 5 hours ?

(A) 510 km   (B) 420 km   (C) 410 km   (D) 590 km

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37. Ram had 5600 ml of mustard oil. He used $\frac{3}{5}$th of it in the first week and $\frac{1}{4}$th of it in the second week. How much oil was left after that?

(A) 480 ml   (B) 840 ml   (C) 790 ml   (D) 820 ml

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38. Four shirts and six pants have a total of 76 buttons. Each pant has 4 fewer buttons than each shirt. How many buttons are there on each pant?

(A) 10   (B) 4   (C) 6   (D) 9

---

39. In a box there are 275643 white marbles, 93210 black marbles and 72514 yellow marbles. Find the total number of marbles.

(A) 442367   (B) 432367   (C) 441267   (D) 441367

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40. Angad participated in a race. He took 2 hour 37 minutes 12 seconds to complete the race. How many seconds did he take to complete the race?

(A) 169 seconds   (B) 7434 seconds   (C) 9432 seconds   (D) 8128 seconds

---

41. Which digit should come at the place of '*' to make the number 6245* divisible by 3 ?

(A) 0   (B) 1   (C) 2   (D) 5

---

42. If 18 men can complete a piece of work in 12 days, then in how many days 8 men can complete it?

(A) 27 days   (B) 12 days   (C) 29 days   (D) 15 days

◄SPACE FOR ROUGH WORK►

43. A rectangular playground is 129 m long and 87 m wide. If a person walks around it 7 times, then how much distance does that person cover?

(A) 1512 m   (B) 2121 m   (C) 2727 m   (D) 3024 m

---

44. Shyla reads 223 pages every day except on Sunday. How many pages does she read in 9 weeks ?

(A) 14049 pages   (B) 18063 pages   (C) 12042 pages   (D) 11502 pages

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45. The one's digit/unit digit of $8 \times 7 \times 4 \times 9 \times 6 \times 9 \times 5 \times 4 \times 3$ is

(A) 8   (B) 1   (C) 2   (D) 0

ACHIEVERS SECTION

46. 24 years ago, Rahul was thrice as old as Rakesh. Rahul is 60 years old now.

(I) How old will Rahul be 7 years from now?

(II) How old was Rakesh 6 years ago?

(I)	**(II)**
(A) 67 years	30 years
(B) 53 years	30 years
(C) 67 years	36 years
(D) 67 years	12 years

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47. The given figure is made up of a square and a rectangle. The width of the rectangle is $\frac{1}{4}$th the length of the square. If the area of the whole figure is 328 cm^2, find the length of the rectangle?

16 cm

(A) 18 cm   (B) 12 cm   (C) 4 cm   (D) 9 cm

---

48. Match the columns.

Column I	Column II
(i) 1624	(p) MMCCXXXVI
(ii) 3258	(q) MDCCLX
(iii) 2236	(r) MDCXXIV
(iv) 1760	(s) MMMCCLVIII

(A) i-r, ii-s, iii-p, iv-q
(B) i-q, ii-p, iii-r, iv-s
(C) i-r, ii-q, iii-s, iv-p
(D) i-q, ii-r, iii-p, iv-s

---

49. Rahim is thinking of a four-digit number.

↳ The second digit is the fourth multiple of 2.

↳ The fourth digit is twice the first digit.

↳ The third digit is the smallest odd number.

Find the number

(A) 2834   (B) 3816   (C) 1833   (D) 4838

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50. Find P + Q × R – S ÷ T.

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98)8 9 5 P 6)91S
  − 8 Q 2
   ─────
    1 3 7
   −  9 8
   ─────
      3 9 6
   −  3 R 2
   ─────
        T
```

A) 80   B) 77   C) 78   D) 76

◄SPACE FOR ROUGH WORK►

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◄SPACE FOR ROUGH WORK►