DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Name:……

Arifinkidz Roll No:……

Total Questions: 35 Time: 1hr

SMO
SUMMER MATHEMATICS OLYMPIAD

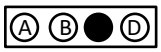
Arifinkidz Summer Mathematics Olympiad 2023

CLASS 4

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 (10 Questions), **Mathematical Reasoning** (10 Questions), **Everyday Mathematics** (10 Questions) and **Achievers Section** (5 Questions).
  Each question in Achiever Section carries 2 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: Riya has 35 roses, which are 12 more than the number of roses Radhika has. How many roses Radhika has?
  A. 20 B. 15 C. 23 D. 22
  As the correct answer is option C, you must darken the circle corresponding to option C on the OMR Sheet.



- Rough work should be done in the blank space provided in the booklet.
- Return the OMR Sheet to the invigilator at the end of the exam.

1. Find the number which replace the question mark, it some rule is followed in all the three figures?

2	5	6	9	3	6
4	10	4	6	?	4

(A) 7 (B) 16 (C) 24 (D) 2

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2. If 'PRAYER' is coded as 'QQBXFQ' then 'TEMPLE' is coded as _____?

(A) UDNOMD (B) UFNQMF (C) UDMPNE (D) None of these

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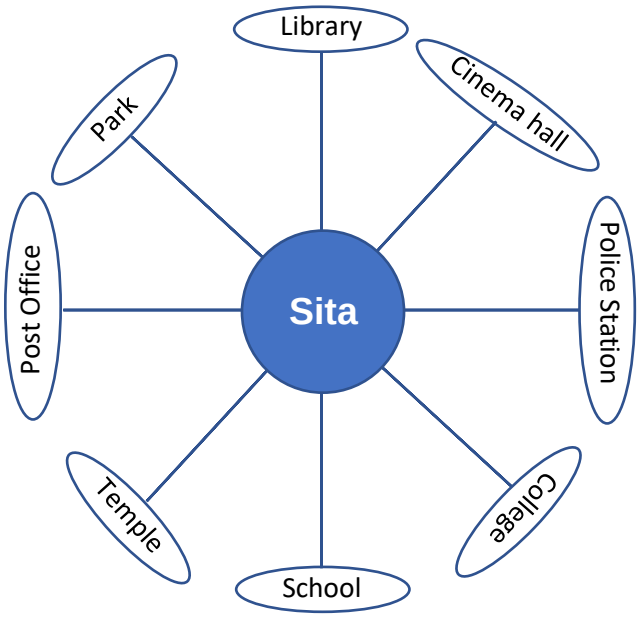
3. Sita is facing towards temple. She make $\frac{3}{8}$ turn in anticlockwise direction and then $\frac{1}{4}$ turn in clockwise direction. What will she be facing now?



(A) temple (B) School (C) Park (D) Post Office

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4. Arrange the following words according to dictionary and select the correct option?

1. Praise 2. Prank 3. Practical 4. Prayers. 5. Practice

(A) 2, 3, 5, 4, 1 (B) 5, 4, 2, 1, 3 (C) 3, 5, 1, 2, 4 (D) 3, 5, 2, 1, 4

SPACE FOR ROUGH WORK

5. Find the correct mirror image of the given figure.

(A) 

(B) 

(C) 

(D) 

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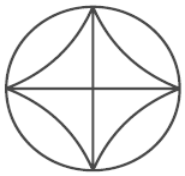
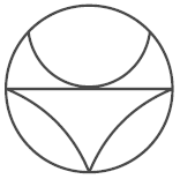
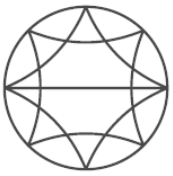
6. Select a figure from the options in which Fig.(X) is exactly embedded as one of its part.

Fig.(X)

(A) 

(B) 

(C) 

(D) 

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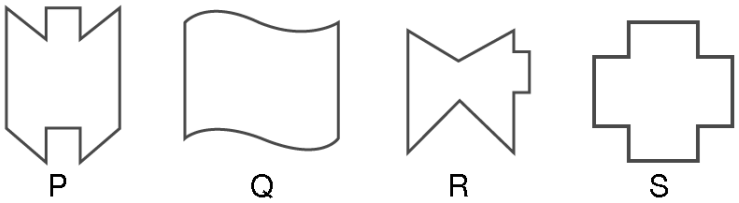
7. Which of the following figures have line of symmetry?



(A) Only P and S (B) Only P and Q (C) Only P,Q and S (D) P, Q, R and S

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8. Suman started making model on 15th October 20XX. Her teacher asked her to submit the model on second day after fourth Thursday of October 20XX. On which date will she submit her model?

October 20XX						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11		

(A) 27th October (B) 25th October (C) 26th October (D) 12th October

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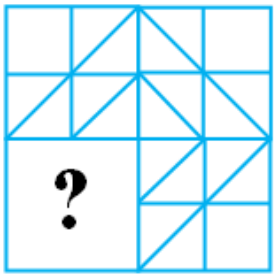
SPACE FOR ROUGH WORK

9. Which of the following options will complete the pattern in the given figure?



(A) 

(B) 

(C) 

(D) 

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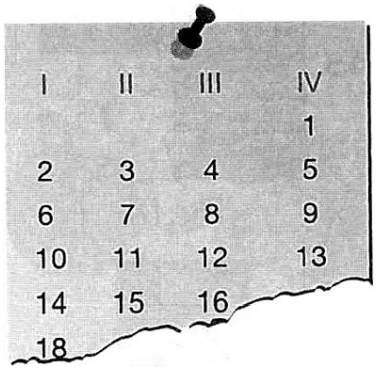
10. A piece of paper is torn. In which column did the number 73 appear?



(A) I (B) II

(C) III (D) IV

MATHEMATICAL REASONING

11. 13546 is 13500 when rounded off to the nearest _____.

(A) Tens (B) Hundreds (C) Thousands (D) Ten thousand

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12. 'P' is thrice as long as 'Q'. 'R' is 380 cm shorter than 'P'. 'R' is 1420 c.m. long. What is the value of P + Q + R = ?

(A) 2820 cm (B) 3820 cm (C) 4280 cm (D) 3280 cm

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13. Hari takes 15 mins 8 sec to walk from his home to school. On his way back home, he took another route and reached home in 13 min 34 secs. How much time did he save by taking the shorter route?

(A) 2 min 26 sec (B) 1 min 34 sec (C) 2 min 34 sec (D) 72 sec

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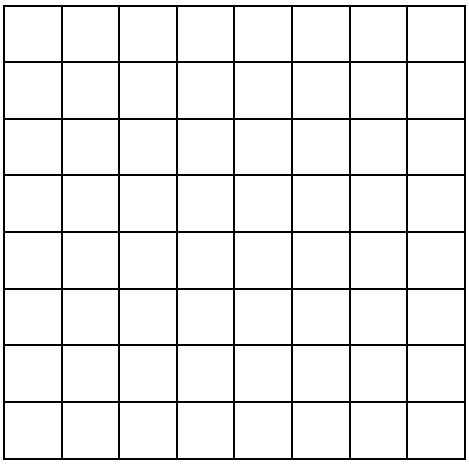
SPACE FOR ROUGH WORK

14. Find out how many squares are there in this figure?



(A) 64 (B) 104 (C) 65 (D) 204

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15. Find the value of $\square + O$ if

$\square + \square + \square + \square = 2448$

and $\square - O = 213$

(A) 1010 (B)1000 (C)1001 (D) 1011

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16. In a parking lot, there are 12 cars and some motorcycles. If there are 84 wheels altogether, then how many motorcycles are there?

(A) 36 (B) 18 (C) 16 (D) 28

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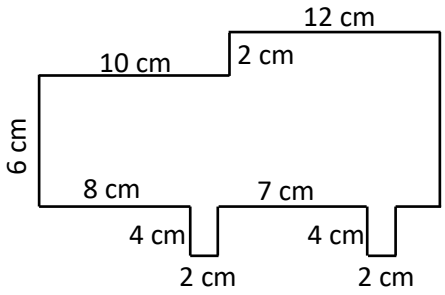
17. If all the symbols are removed from the given arrangement, then which of the following will be third to the left of eighth element from the right end?

S 3 T U M @ L X # $ 7 8 A Z 1 4 N P * Y D 6 F I %

(A) A (B) Z (C) 8 (D) 4

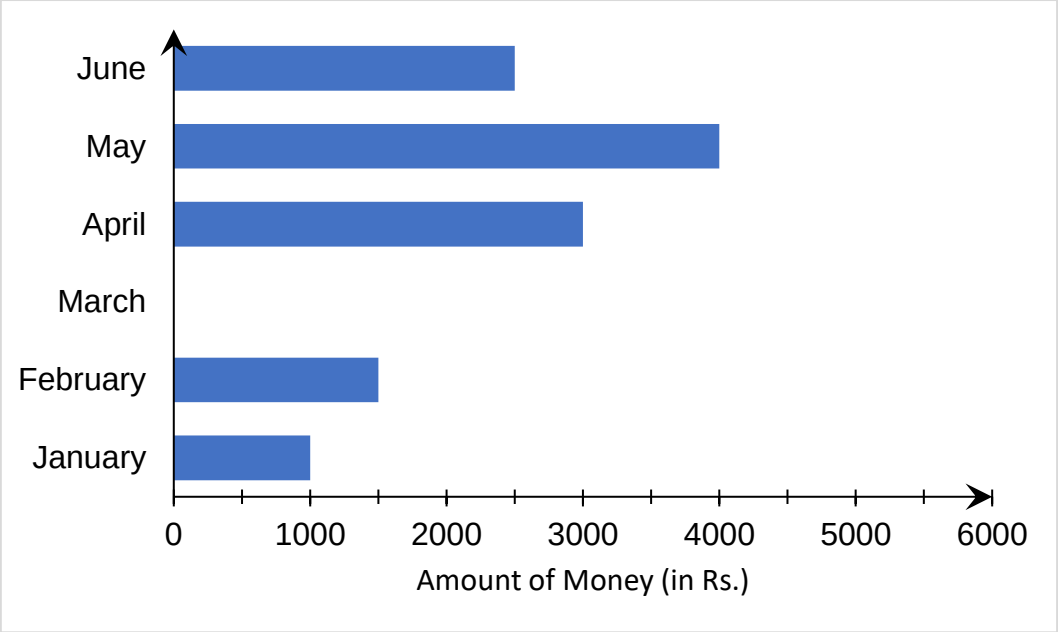
SPACE FOR ROUGH WORK

18. Find the perimeter of the given figure?



(A) 76cm (B) 72 cm (C) 62 cm (D) 51 cm

Direction (19-20): The given bar graph shows Raj's savings from January to June. Study the graph and answer the question.



19. If Raj saved a total of Rs.17000/- from January to June, then how much did he save in march?

(A)2500 (B) 3000 (C) 4000 (D) 5000

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20. If Raj spent $\left(\frac{1}{5}\right)$th of the amount of money he saves in May, then how much did he earn in that month?

(A) 4500 (B) 4200 (C) 5000 (D) 4800

SPACE FOR ROUGH WORK

21. Ram invited 379502 guests for dinner. Which of the following option shows the correct number name for the number of guests invited by him?

(A) Thirty-seven lakh nine thousand five hundred two

(B) Three lakhs seventy-nine thousand five hundred two.

(C) Three lakh nine thousand five hundred two.

(D) None of these

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22. There are 4918 boys and 2579 girls in a school hall. 1937 students left the school hall. How many students remained in the school hall?

(A)5560 (B) 4560 (C) 5460 (D) 5760

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23. The cost of some snacks are given below.

Muffins	₹ 30	Chips	₹ 20
Cupcakes	₹ 50	Cold drinks	₹ 50
Cream roll	₹ 20	Patties	₹ 25

If Dev bought 2 cupcakes, 5 patties, 3 cold drinks and 3 muffins, then how much he has to pay?

(A) ₹ 355 (B) ₹ 380 (C) ₹ 465 (D) ₹ 400

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24. Shankar bought 93 kg 479 gm sugar and Susil bought 69 kg 392 gm sugar. Who bought less sugar and how much?

(A) Susil, 24 kg 870 gm (B) Susil 23 kg 870 gm

(C) Susil, 24 kg 087 gm (D) Susil 23 kg 087 gm

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25. A Rectangular playground is 79 m long and 32 m wide. What distance did Ram cover in going 7 times around this field?

(A) 777m (B) 1554 (C) 677m (D) 592 m

SPACE FOR ROUGH WORK

26. A factory manufactures 379 cars each day. How many cars does the factory manufacture in 9 weeks?

(A) 24837 (B) 24877 (C) 23877 (D) 27387

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27. In a park, Sita took a water ride of 45 minutes and looping ride of 35 minutes one after another. If she finished the second ride at 7:25 pm, then when did she start her first ride?

(A)6:05 pm (B) 7:05 pm (C) 5.55 pm (D) 6.15 pm

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28. Mr. Khan had 36 jars of cookies. There were 45 cookies in each jar. The cookies were replaced into packets of 18. How many such packets did Mr. Khan have?

(A) 70 (B) 80 (C) 90 (D) 85

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29. A gardener plans to plant 4600 trees in 23 rows, each containing the same number of trees. How many trees will there be in each row?

(A) 200 (B) 300 (C) 400 (D) 250

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30. A city has a population 91792. Round off the population to the nearest hundreds.

(A)91790 (B) 91800 (C) 91700 (D) 92800

SPACE FOR ROUGH WORK

31. Find the value of X + Y.

```
   X 78
15)14670
 - 135↓
   117
 - 105↓
    1Y0
   -120
      0
```

(A) 12 (B) 13 (C) 11 (D) 10

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32. Match the following and select the CORRECT option.

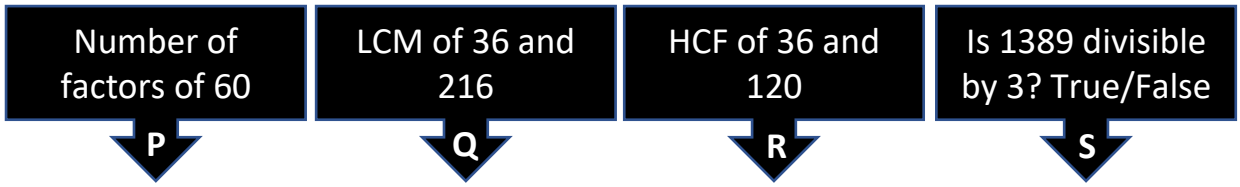
Column-I	**Column-II**
P. CMXXXVI + CDXXVIII	(i) MCCCXXXVII
Q. CDLXXXV + DCCCLII	(ii) MXCII
R. CCCLXIX + DXXVIII	(iii) MCCCLXIV
S. DLXXIII + DXIX	(iv) DCCCXCVII

(A) P-(iii), Q-(i), R-(ii), S-(iv) (B) P-(i), Q-(ii), R-(iv), S-(iii)

(C) P-(iii), Q-(i), R-(iv), S-(ii) (D) P-(i), Q-(ii), R-(iii), S-(iv)

SPACE FOR ROUGH WORK

33. Find the values of P, Q, R and S.



	P	Q	R	S
(A)	12	612	12	False
(B)	12	612	12	True
(C)	12	216	12	False
(D)	12	216	12	True

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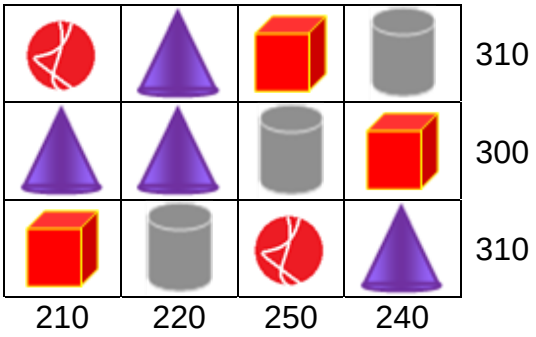
34. Identify the number using the given clues.

- Its ten's digit is 4 more than the smallest odd number.
- Its thousand's digit is 3 more than the hundred's digit.
- Its one's digit is the 4^{th} multiple of ten thousand's digit.
- Its hundred's digit is a multiple of 2.
- Its ten thousand's digit is a common factor of 2 and 7.

(A) 11454 (B) 17454 (C) 14754 (D) 15244

SPACE FOR ROUGH WORK

35. Find the value of  ,  ,  and  respectively.



(A) 70, 60, 80, 100 (B) 80, 50, 80, 100 (C) 70, 70, 80, 100 (D) 70, 60, 90, 100

SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK