

**SOF INTERNATIONAL
MATHEMATICS OLYMPIAD
2024-25**

DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

CLASS **3**
SET-B

Total Questions : 35 | Time : 1 hr.

Guidelines for the Candidate

1. You will get additional ten minutes to fill up information about yourself on the OMR Sheet, before the start of the exam.
2. Write your **Name, School Code, Class, Section, Roll No.** and **Mobile Number** clearly on the **OMR Sheet** and do not forget to sign it. We will share your marks / result and other information related to SOF exams on your mobile number.
3. 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 Achievers Section carries 2 marks, whereas all other questions carry one mark each.

4. All questions are compulsory. There is no negative marking. Use of calculator is not permitted.
5. There is only ONE correct answer. Choose only ONE option for an answer.
6. To mark your choice of answers by darkening the circles on the OMR Sheet, use **HB Pencil** or **Blue / Black ball point pen** only. E.g.

Q. 16: Raghav drinks 10 glasses of water in one day. If he drinks same amount of water every day, then how many glasses of water will he drink in one week?

- A. 70 B. 40 C. 50 D. 65

As the correct answer is option A, you must darken the circle corresponding to option A on the OMR Sheet.

16. ● (B) (C) (D)

7. Rough work should be done in the blank space provided in the booklet.
8. Return the OMR Sheet to the invigilator at the end of the exam.
9. Please fill in your personal details in the space provided before attempting the paper.

Name:.....

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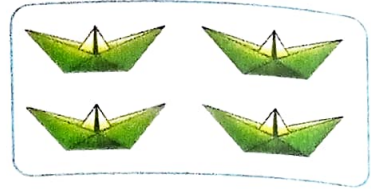
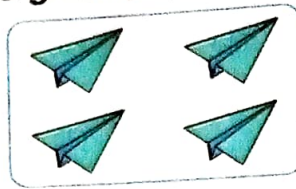
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LOGICAL REASONING

- 1 How many different possible combinations of 1 paper plane and 1 paper boat can be formed from the given paper planes and paper boats?

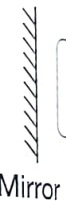


- A. 8 B. 12 C. 18 D. 16

- 2 Which of the following figures will replace the question mark (?) in the given figure matrix?



- 3 Select the CORRECT mirror image of the given figure.



- 4 Arrange the alphabets given below to form a meaningful English word and identify the category of that word.

T M U H O

A. Animal

B. Colour

C. Body part

D. Vegetable

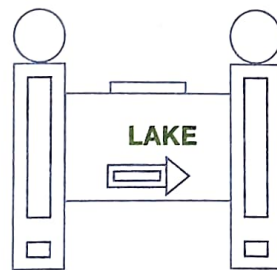
- 5 If is called , is called and is called , then _____ is used for cooking food.



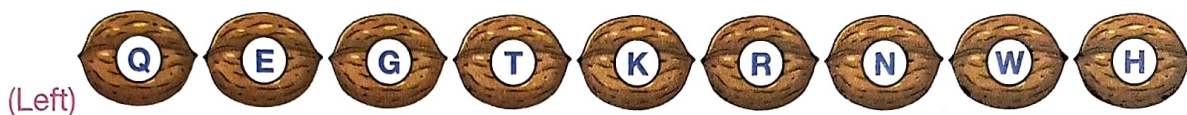
SPACE FOR ROUGH WORK

- 6 Find the number of rectangles in the given figure.

A. 12
B. 9
C. 11
D. 10

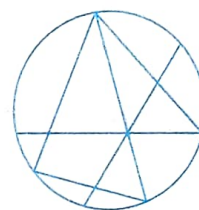
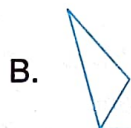


- 7 If walnut K and walnut N are removed from the given arrangement, then walnut _____ is sixth from the right end.



A. G B. R C. E D. T

- 8 Select a figure from the options which is exactly embedded in the given figure as one of its parts.



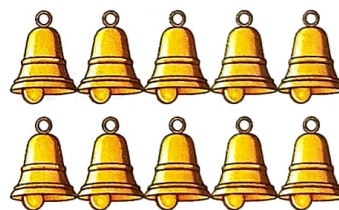
- 9 Study the given figure patterns carefully. What will be the number of bells in Pattern 7?



Pattern 1



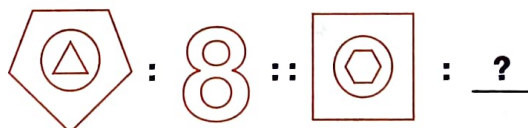
Pattern 2



Pattern 3

A. 22 B. 19 C. 23 D. 21

- 10 There is a certain relationship between the pair of figures on the either side of ::. Identify the relationship on the left pair and find the missing figure.

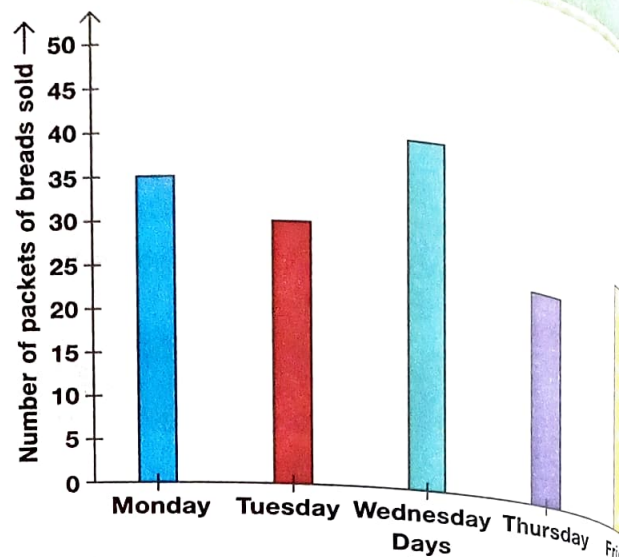


A. 10 B. 12 C. 9 D. 5

SPACE FOR ROUGH WORK

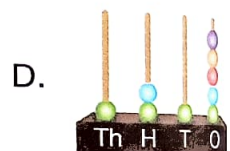
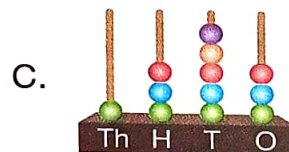
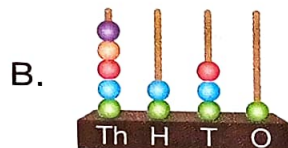
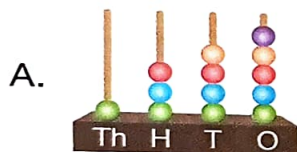
MATHEMATICAL REASONING

DIRECTIONS (11-12) : The given bar graph shows the number of packets of breads sold by a shopkeeper during the five days of a week. Study the given graph carefully and answer the following questions.



- 11** On which of the following two days, the same number of packets of breads were sold?
- A. Monday and Friday
B. Tuesday and Thursday
C. Tuesday and Friday
D. Wednesday and Thursday
- 12** How many more packets of breads were sold on Tuesday, Wednesday and Thursday altogether than on Monday and Friday together?
- A. 30 B. 35 C. 20 D. 25

- 13** Which of the given abacuses shows the number less than 1345?



- 14** Which of the following does NOT look like a cuboid?



- 15** What fraction of the letters in the given word are consonants?

PRONUNCIATION

A. $\frac{5}{13}$

B. $\frac{6}{13}$

C. $\frac{7}{13}$

D. $\frac{4}{11}$

SPACE FOR ROUGH WORK

- 16 Find the distance between the dock and island, if the distance between boat and island is 3 times the distance between the boat and dock.

- A. 62 m
B. 70 m
C. 80 m
D. 50 m



- 17 The given amount of money shows the savings of Nakul in a month. If he saves same amount of money in each month, then how much total money will he save in 1 year?

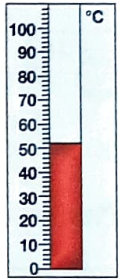


- A. ₹ 6500
B. ₹ 6050
C. ₹ 7500
D. ₹ 7020

- 18 If $\square + \square = 96$ and $\square + \square + \square = 120$, then find the value of $\square - \square$.
- A. 11
B. 15
C. 12
D. 13

- 19 Which of the following options shows 15°C more than the temperature shown on the given thermometer?

- A. 42°C
B. 37°C
C. 57°C
D. 67°C



- 20 A number between 50 and 62 is exactly divisible by 9. What will be the result when 7 is subtracted from that number?

- A. 40
B. 47
C. 56
D. 63

EVERYDAY MATHEMATICS

- 21 There are 19 balls in a basket. Out of which, 11 are blue and rest are green. Find the fraction of green balls in the basket.

- A. $\frac{8}{19}$
B. $\frac{11}{19}$
C. $\frac{8}{9}$
D. $\frac{9}{11}$

SPACE FOR ROUGH WORK

- 22 Sonal bought 5 teddy bears and 2 doll houses as shown. How much total amount does she have to pay?

A. ₹ 1810

B. ₹ 1590

C. ₹ 1720

D. None of these



Teddy bear



Doll house

- 23 The number of books in library P is 384 less than the number of books in library Q. If the number of books in library Q is 3000, then what is the number of books in library P?

A. 2616

B. 2661

C. 1266

D. 1261

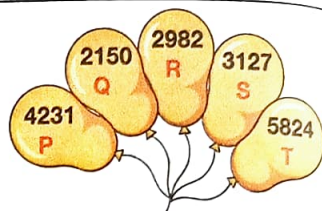
- 24 Kavita wants to choose a balloon with smallest number written on it. Which of the following balloons will she choose?

A. Q

B. T

C. P

D. R



- 25 Rohit exercises every day in the morning from 5 : 45 a.m. to 6 : 30 a.m. How much total time is spent by him in exercising in one week?

A. 350 minutes

B. 245 minutes

C. 315 minutes

D. 275 minutes

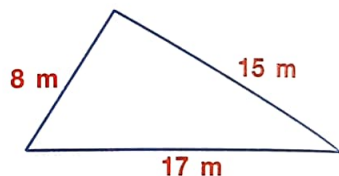
- 26 Pranav walked around a triangular path as shown here. Find the total distance covered by him.

A. 37 m

B. 42 m

C. 38 m

D. 40 m



- 27 Rajesh bought a packet of biscuit for ₹ 25 and a packet of chips for ₹ 65. If he gave a 100-rupee note to the shopkeeper, then how much amount will he get in return?

A. ₹ 15

B. ₹ 5

C. ₹ 20

D. ₹ 10

- 28 Preeti drew 25 stars on her daughter's art book. Her daughter coloured 13 stars with red colour and rest with blue colour. What fraction of total stars were coloured with blue colour?

A. $\frac{12}{25}$

B. $\frac{13}{25}$

C. $\frac{12}{13}$

D. $\frac{13}{12}$

- 29 The distance from Rohan's house to city park is 850 m and from city park to market is 215 m. If Rohan travelled from his house to market via city park, then how much total distance did he cover?

A. 715 m

B. 970 m

C. 1095 m

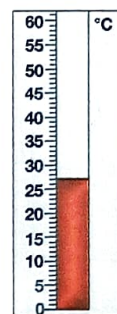
D. 1065 m

SPACE FOR ROUGH WORK



- 30 There are 1550 helmets placed in a shop. If all the helmets are arranged equally in 5 rows, then how many helmets are there in each row?
- A. 280 B. 320 C. 310 D. 250

ACHIEVERS SECTION

- 31 The given thermometer shows the temperature of Shimla at 3 : 00 p.m.
- (p) What was the temperature of Mussoorie at the same time, if it was 9°C more than the temperature of Shimla?
- (q) If the temperature of Shimla will get decreased by 2°C in every next hour, then what will be the temperature of Shimla at 11 : 00 p.m.?



- | (p) | (q) |
|-------------------------|----------------------|
| A. 36°C | 15°C |
| B. 18°C | 17°C |
| C. 18°C | 13°C |
| D. 36°C | 11°C |

- 32 Kritika has . Her father gave her . She lost 1 note of ₹ 200 and bought the following items from the market from the remaining amount. How much money is left with her?



- A. ₹ 510 B. ₹ 695
- C. ₹ 485 D. ₹ 720

- 33 Find the value of P, Q and $P + Q + R$.

P	Q	$P + Q + R$
A. 1	4	8
B. 2	3	9
C. 1	5	9
D. 2	4	8

$$\begin{array}{r}
 \boxed{P} \ 57 \\
 5 \overline{) 789} \\
 \underline{- 5} \downarrow \\
 28 \\
 \underline{- 2\boxed{Q}} \downarrow \\
 39 \\
 \underline{- \boxed{R} 5} \\
 4
 \end{array}$$

SPACE FOR ROUGH WORK

- 34 The given pictograph shows the number of sunglasses sold in a week on the beach side of Goa. Study the given pictograph carefully and answer the following questions.

- (p) How many less sunglasses were sold on Thursday than on Saturday and Sunday together?
- (q) If the data shown in the pictograph for Monday and Wednesday got interchanged, then how many more sunglasses were sold on Friday than on Wednesday?

Days	Number of sunglasses sold
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	

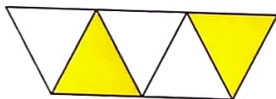
Each stands for 20 sunglasses.

(p) (q)

- A. 300 20
- B. 200 20
- C. 300 40
- D. 200 40

- 35 Select the **INCORRECT** option.

- A. In the word RECYCLE, the fraction of vowels is $\frac{1}{7}$.
- B. If $X = \frac{3}{15} + \frac{7}{15}$ and $Y = \frac{13}{15} - \frac{11}{15}$, then $X + Y = \frac{12}{15}$.
- C. The shaded fraction of the given figure is $\frac{2}{3}$.



- D. Both A and C

SPACE FOR ROUGH WORK

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