Reader's Sign _____ Date _____

ORANGE GLOBAL OLYMPIAD

School Level Examination
SLE 2024

SET: I

GRADE 5

MATHEMATICS

Subject Code: 2 0 1

Total Questions: 30 **Total Marks:** 30 **Time:** 1 hour

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED TO DO SO

- All questions are compulsory.
- Read the instructions on the **ANSWER SHEET** and fill in your **NAME**, **CLASS** and **OTHER INFORMATION**.
- To mark your choice of answer by darkening the circles in the **ANSWER SHEET**, use an **HB PENCIL** only.
- You **MUST** record your answers on the **ANSWER SHEET** only.
- There are **30 MULTIPLE CHOICE QUESTIONS**. Each question carries one mark. Use the information provided to choose the **BEST** answer among the four possible options. On your **ANSWER SHEET** fill in the circle that matches your answer.
- Marks are **NOT** deducted for incorrect answers.
- Return the **ANSWER SHEET** to the invigilator at the end of the examination.
- You are **NOT** allowed to use a calculator. You may use a ruler and spare paper for rough work.

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GRADE 5

This question paper contains a total of 30 questions divided into three sections - A, B and C.

Section A (Logical Reasoning)

1. Manav started to walk straight towards the East. After walking 50 m, he turned to the left and walked 30 m. Again he turned to the right and walked 50 m. To which direction is Manav facing now?

   (A) North-East (B) East

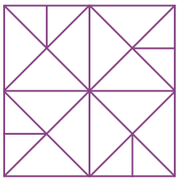
   (C) North (D) South-West

2. Find the missing term in: $\frac{3}{7}, \frac{8}{17}, \frac{18}{37}, \frac{?}{\quad}, \frac{78}{157}$.

   (A) $\frac{39}{67}$ (B) $\frac{54}{75}$

   (C) $\frac{38}{77}$ (D) $\frac{37}{102}$

3. How many squares are there in the given figure?



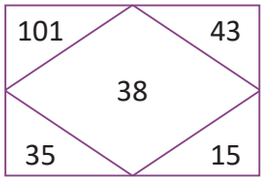
   (A) 10

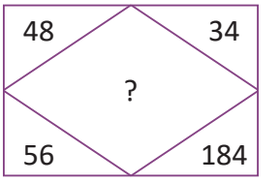
   (B) 14

   (C) 17

   (D) None of these

4. Establish the relationship among the numbers given in the first rectangle and find the number that will replace the '?' mark in the second rectangle.





   (A) 142 (B) 127

   (C) 198 (D) 158

5. Choose the figure that resembles the unfolded form of figure Z.

   (A)  (B) 

   (C)  (D) 

Section B (Subject Specific)

6. Swati writes a seven-digit number which has only 1s in the ones period, only 3s in the thousands period and only 6s in the lakhs period. How will you read this number in the International system?

   (A) Six million six hundred thirty-three thousand one hundred eleven

   (B) Sixty-six million thirty-three thousand one hundred eleven

   (C) Six lakh thirty-three thousand one hundred eleven

   (D) Sixty-six lakh thirty-three thousand one hundred eleven

7. If P = the smallest 6-digit number formed using 2, 0 and 5; and Q = the greatest 6-digit number formed using 3, 1 and 2, then how many thousands does P + Q have?

   (A) 453 (B) 599

   (C) 422 (D) 533

8. Avantika multiplied 8,139 by 96 instead of multiplying by 69. By how much was her answer greater than the correct answer?

   (A) 1,80,293 (B) 2,19,753

   (C) 4,39,428 (D) 5,61,591

9. Robin gets the product of two numbers. He chooses a multiplicand as 3,459 and multiplier as the smallest 3-digit odd number. He then divides the obtained product by a 3-digit odd number, which lies between 301 and 305. What will he get as the result of division?

   (A) 153 (B) 303

   (C) 1,051 (D) 1,153

10. F is the largest factor of 25, and M is the smallest multiple of 36. The value of 5M + 6F is _____.

    (A) 330 (B) 360

    (C) 396 (D) 420

11. Find the value of A in the given expression.

$$1\frac{4}{7}+1\frac{4}{7}+1\frac{4}{7}+1\frac{4}{7}+1\frac{4}{7}=A\times\frac{11}{7}+3\frac{1}{7}$$

    (A) 4 (B) 7

    (C) 5 (D) 3

12. Poonam gave $\frac{1}{6}$ of her shells to Rinki and $\frac{1}{3}$ to Surya. She then had 210 shells left with her. How many shells did Rinki get?

(A) 90 (B) 180

(C) 70 (D) 140

13. Evaluate $5.44 - 0.956 \times 8 + 8.87$, round off the answer to the 2 decimal places.

(A) 66.62 (B) 6.66

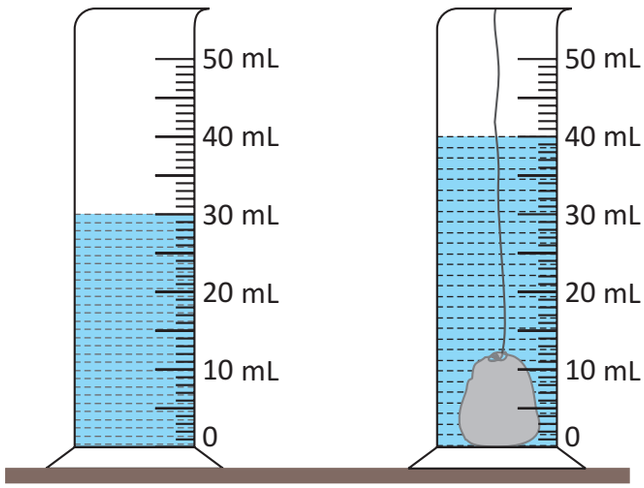
(C) 6.662 (D) 6.62

14. Find the value of $\frac{0.07}{700}$.

(A) $\frac{1}{1000}$ (B) $\frac{1}{10000}$

(C) $\frac{1}{100}$ (D) $\frac{1}{5000}$

15. Rahul was doing an experiment. The given figure shows the steps he followed to measure the volume of a solid. The volume of solid is equivalent to _____.



(A) 0.001 L (B) 0.01 L

(C) 0.1 L (D) 1.0 L

16. A baker made 1500 cookies and packed them into jars of 30 cookies each. If he sold each jar for ₹38, how much did he earn when he sold all the cookies?

(A) ₹2,040 (B) ₹1,900

(C) ₹2,240 (D) ₹1,800

17. Mohan worked in a company having 5 working days in a week. If Mohan worked 8 hours a day, then how many hours did he work in an ordinary year, if the year started with Monday?

(A) 2076 h (B) 2084 h

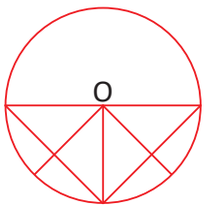
(C) 2088 h (D) 2504 h

18. A movie starts at 10:30 am. It runs for $2\frac{3}{4}$ hours. At what time does it get over?

(A) 12:45 pm (B) 1:25 pm

(C) 1:45 pm (D) 1:15 pm

19. How many line segments are representing chords and radii in the given circle, respectively?



(A) 3, 5

(B) 3, 4

(C) 2, 4

(D) 5, 4

20. There are _____ pairs of parallel lines in the given figure.

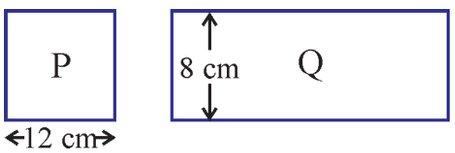
(A) 3

(B) 4

(C) 5

(D) 6

21. The total perimeter of square P and rectangle Q is 94 cm. The length of rectangle Q is _____.



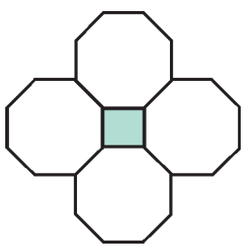
(A) 12 cm

(B) 15 cm

(C) 17 cm

(D) 18 cm

22. Four regular octagons enclose a square as shown in the figure. Find the perimeter of the closed figure, if area of the square is 49 cm^2.



(A) 140 cm

(B) 144 cm

(C) 150 cm

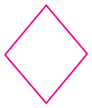
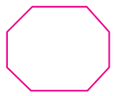
(D) 168 cm

23. A rectangular tank of 40 cm by 30 cm by 15 cm has 14.25 L of water. How much water will overflow, if another 6 L of water is poured into the tank?

(A) 2.16 L (B) 2.25 L

(C) 2.5 L (D) 2.75 L

24. Identify the odd one out.

(A)  (B) 

(C)  (D) 

25. How many bindis would be used in 8th step in the following pattern?

1 3 6 10 .....

(A) 55 (B) 40

(C) 36 (D) 45

Section C (Competency Enhancement)

26. Sunil walks around a square park whose side is 50 m. One day he walked around the park 6 times. How much distance did he walk on that day?

(A) 1450 m (B) 1500 m

(C) 1800 m (D) 1200 m

27. What will be the product of place values of two 4s in the number; 5,94,78,479?

(A) 16 thousands (B) 16 lakhs

(C) 16 crores (D) 1 crore 60 lakhs

28. What will be the quotient if the sum of 90 and 45 is divided by their difference?

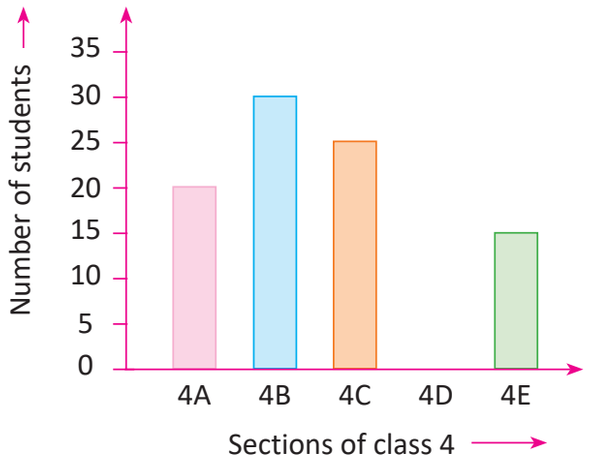
(A) The smallest composite number (B) The smallest prime number

(C) The smallest odd prime number (D) Neither composite nor prime

29. A farmer grew 5815 kg wheat in one field and 5165 kg wheat in another field. He mixed all the wheats thoroughly and packed in 50 kg bags. How many bags were packed and how much wheat was leftover?

(A) 255 bags, 46 kg
(B) 219 bags, 30 kg
(C) 249 bags, 30 kg
(D) 250 bags, 20 kg

30. The given bar graph shows the number of students of five sections of class 4, who donate to a foundation. Each student donated ₹19. If the total donation is ₹1995, then the number of students of class 4D who donate money is _____.



(A) 15
(B) 10
(C) 11
(D) 20

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\ 03-Aug-2024 **Bharat Arora** **Proof-3**

Reader's Sign _____ Date _____