



MATHEMATICS

Grade 3

National Level Examination

NLE 2024

Subject Code:

2	0	1
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Total Questions: 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**. Use the information provided to choose the **BEST** possible answer among the four options. On your **ANSWER SHEET** fill in the circle that matches your answer.
- $\frac{1}{2}$ **MARK** will be deducted for every **WRONG ANSWER**.
- 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.



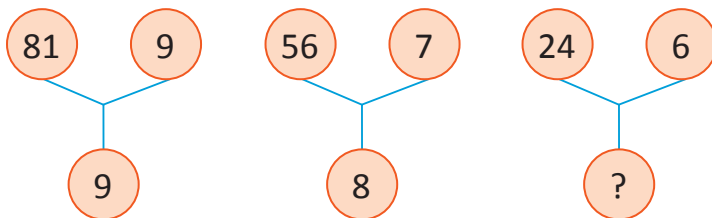
This question paper contains a total of 30 questions divided into three sections—A, B and C. Read the instructions carefully before attempting these questions.

Section A (Logical Reasoning)

1. If 'Pen' is called 'Table', 'Table' is called 'Fan', 'Fan' is called 'Chair' and 'Chair' is called 'Roof', then Saurav will sit on _____.

- (A) fan (B) chair
(C) table (D) roof

2. Identify the pattern and find out the missing number.

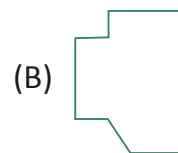
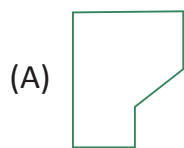


- (A) 7 (B) 5
(C) 4 (D) 3

3. If 305672 means ACTION, what does the code 032 mean?

- (A) CAN (B) TON
(C) TIN (D) CAT

4. Which of the following will fit in  to form a complete square?



5. Which letter should replace the question mark in the following pattern?

A, B, D, G, ?, P

- (A) J (B) I
(C) K (D) L



Section B (Subject Specific)

6. The short form for $5000 + 60 + 2$ is _____.
- (A) 5602 (B) 5062
(C) 5620 (D) 5662

7. Which number will make the following expression true?

$$30 - 15 = 10 + \square$$

- (A) 10 (B) 25
(C) 5 (D) 15
8. What fraction of our national flag is saffron?

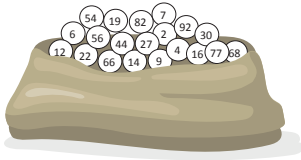


- (A) $\frac{2}{3}$ (B) $\frac{1}{2}$
(C) $\frac{1}{3}$ (D) $\frac{1}{4}$
9. The tens digit in the sum of 3254 and 1347 is _____.
- (A) 1 (B) 2
(C) 9 (D) 0
10. 6271 when written in expanded form is the same as _____.
- (A) $600 + 200 + 70 + 1$ (B) $620 + 70 + 1$
(C) $6000 + 200 + 70 + 1$ (D) None of these
11. What number comes next in the sequence given below?
1, 3, 6, 10, 15, _____.
- (A) 21 (B) 28
(C) 25 (D) 27



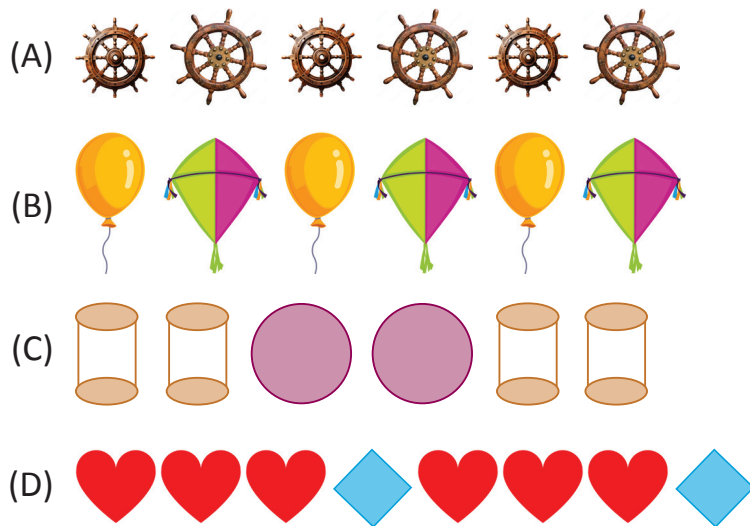


12. A boy has drawn a ball from a bag containing balls numbered from 1 to 100. It is found to be 19 more than the least two-digit number. What is the number?



- (A) 10 (B) 19
(C) 29 (D) 99

13. Which of the patterns given below is based on change in size?



14. Pick the odd one out of the following geometrical figures:

- (A) Cube (B) Cuboid
(C) Sphere (D) Circle

15. There are 25 students in a class. Each student ate 6 chocolates. How many chocolates in all did the students eat?

- (A) 120 (B) 140
(C) 150 (D) 180

16. $60 + 20 + 10 = \square + 10$. What will come in place of the blank box?



- (A) 90 (B) 80
(C) 50 (D) 70





17. There are _____ fives in 36 and _____ will be left over.
(A) 7, 1 (B) 9, 2
(C) 7, 3 (D) 9, 3
18. Sum of two numbers is 88. If one of them is 39. What is the other?
(A) 39 (B) 41
(C) 49 (D) 50
19. Tom had a rope that was 36 cm long. His sister had a rope which was $\frac{1}{2}$ the length of Tom's rope. How less are the two ropes from 1 metre if their lengths are put together?
(A) 45 cm (B) 40 cm
(C) 46 cm (D) 50 cm
20. The total number of days in the months of June, July and August combined together is _____.
(A) 89 (B) 90
(C) 91 (D) 92
21. How many faces does the given figure have?
(A) 5 (B) 6
(C) 4 (D) 3
22. Rahul's father was 39 years old in 2016. When was his father was born?
(A) 1977 (B) 1978
(C) 1979 (D) 1983

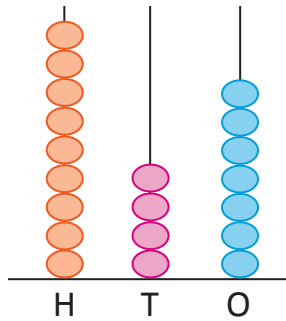


23. If  = 12 students are there who like to speak English language and  are the total number of students, then find the number of students who do not like to speak English.
(A) 42 (B) 30
(C) 24 (D) 18





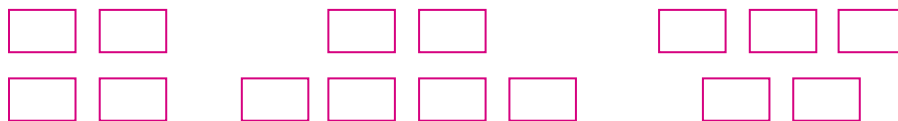
24. Parul sold 45 cookies on Saturday and 90 cookies on Sunday. If she sold these cookies for ₹7 each, then how much total money did she earn?
 (A) ₹945 (B) ₹630
 (C) ₹525 (D) ₹315
25. How many beads should be removed from the hundred's place in the abacus shown here, if it has to represent a number between 500 and 600?



- (A) 5 (B) 4
 (C) 3 (D) 2

Section C (Competency Enhancement)

26. If represents 1, which of the following numbers is represented by the given diagram:



- (A) 455 (B) 445
 (C) 465 (D) 425

27. Expanded form of a number helps us identify the numbers easily. Look at the given expansion of numbers and find the missing term.

$$785 = 700 + \underline{\quad} \times 10 + 5$$

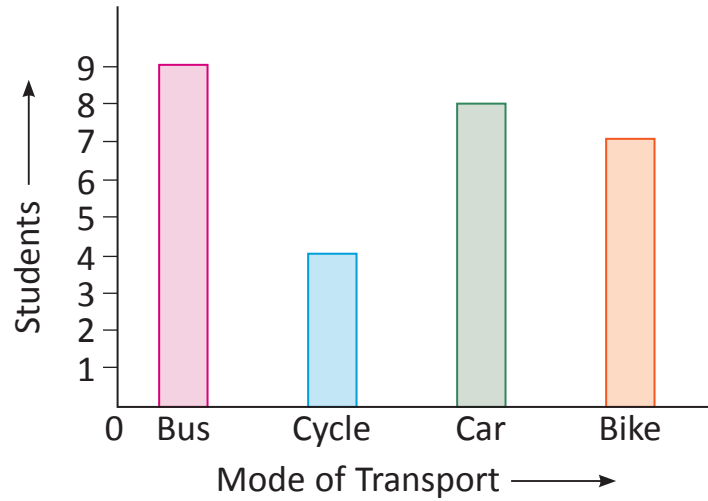
- (A) 800 (B) 80
 (C) 10 (D) 8

28. The teacher wrote a 3-digit number on the blackboard: 58. What should she write in the blank space to make it the smallest possible number?

- (A) 0 (B) 1
 (C) 2 (D) 9



Study the bar graph which shows the mode of transport used by students to go to school. Answer the questions 29 and 30.



29. Which is the most popular mode of transport?
(A) Bus (B) Car
(C) Cycle (D) Bike
30. How many students in all use any of the four modes of transport to go to school?
(A) 28 (B) 27
(C) 26 (D) 25





$\sqrt{a-\sqrt{b}}$ $V_n^k = \frac{n^k - 1}{(n-1)^k}$ $N \frac{3}{8} = 0.375 = 37.5\%$ $\lim_{x \rightarrow \infty} f(x) = \pm \infty$ $\int \frac{1}{x} dx = \ln|x| + c$ $T = 2\pi\sqrt{\frac{1}{g}}$ $f(x) = a(x+b) = -(ax-b)$

$a^3 + b^3 = (a+b)(a^2 - ab + b^2)$ $V_n^k = \frac{n^k - 1}{(n-1)^k}$ $T = 2\pi\sqrt{\frac{1}{g}}$ $N \frac{3}{8} = 0.375 = 37.5\%$ $\Delta 3 = \Delta mc^2$ $P = nkt$ $E = mc^2$ $V_n^k = \frac{n^k - 1}{(n-1)^k}$

$\sum \frac{(-1)^n x^{2n}}{(2n)}$ $E = mc^2$ $\int \frac{1}{x} dx = \ln|x| + c$ $E = mc^2$ $T = 2\pi\sqrt{\frac{1}{g}}$ $\Delta 3 = \Delta mc^2$

$f(x) = a(x+b) = -(ax-b)$ $E = mc^2$ $\sum \frac{(-1)^n x^{2n}}{(2n)}$ $\frac{x}{a^2} + \frac{y}{b^2} - \frac{z}{c^2} = 1$ $\Delta 3 = \Delta mc^2$ $P = \frac{F}{S}$ $T = 2\pi\sqrt{\frac{1}{g}}$

$V_n^k = \frac{n^k - 1}{(n-1)^k}$ $\Delta 3 = \Delta mc^2$ $\frac{x}{a^2} + \frac{y}{b^2} - \frac{z}{c^2} = 1$ $\Delta 3 = \Delta mc^2$ $T = 2\pi\sqrt{\frac{1}{g}}$