



# BK BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS  
SENIOR SECONDARY CO-ED DAY CUM BOYS' RESIDENTIAL SCHOOL  
PERIODIC TEST-2 (2024-25)  
MATHEMATICS (041) Answer keys



Class: IV

Date: 10.12.2024

Admission No:

Duration: 1 Hrs.

Max. Marks: 25

Roll No.:

*General Instructions:*

*Questions 1 to 5 are 1 mark each.*

*Questions 6 to 9 are of 2 marks each.*

*Questions 10 and 13 are of 3 marks each.*

## SECTION-A

(5 × 1 = 5)

**Choose the correct answer.**( 1mark for each correct answer .)

- 1) Which of the following is neither prime nor composite number?  
a) 0                      b) 1                      c) 2                      d) None of these
- 2) How many prime numbers in between 1 to 100?  
a) 25                      b) 50                      c) 30                      d) None of these
- 3) Unit of perimeter is  
a) Cu.m                      b) sq.m                      c) m                      d) None of these
- 4) Perimeter of a rectangle = \_\_\_\_\_.  
a)  $2 \times (l + b)$                       b)  $(l \times b)$                       c)  $4 \times side$                       d)  $side \times side$
- 5) The number with unit digit 0 or 5 is divisible by.  
a) 2                      b) 10                      c) 5                      d) None of these

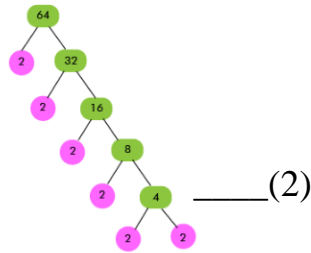
## SECTION- B

(4 × 2 = 8)

- 6) Find the perimeter of the triangles having the sides are  
8 cm, 10 cm and 12 cm  
perimeter of the triangle =  $8+10 + 12 = 30cm$  \_\_\_\_ (2)
- 7) Multiples of 6 are 6, 12, 18, 24, 30, 36, 42, 48, 54, 60, \_\_\_\_ (1)

All are even. \_\_\_\_ (1)

8) Prime factorisation of 64 by factor tree



9) Perimeter of figure = Sum of all sides

$$\begin{aligned} \text{perimeter of figure} &= 6 + 6 + 5 + 5 + 11 + 12 \\ &= 45 \text{ ____ (2)} \end{aligned}$$

### SECTION- C

$$(4 \times 3 = 12)$$

10) HCF of 8 and 12.

Prime factorization of 8 is  $(2 \times 2 \times 2)$  \_\_\_\_ (1)

and 12 is  $(2 \times 2 \times 3)$  \_\_\_\_ (1)

8 and 12 have common prime factors

Hence, the HCF of 8 and 12 is  $2 \times 2 = 4$ . \_\_\_\_ (1)

OR

Find the LCM of 4 and 6 by common multiples.

multiples of 4 =  $(4, 8, 12, 16, 20, 24, \dots)$  \_\_\_\_ (1)

6 =  $(6, 12, 18, 24, \dots)$  \_\_\_\_ (1)

The common multiples from the multiples of 4 and 6 are 12, 24

Smallest common multiple of 4 and 6 is 12.

Least common multiple of 4 and 6 = 12. \_\_\_\_ (1)

11) Test of divisibility

in each box (½ mark for each correct answer (YES) answer)

Number	2	3	5	6
560	YES	NO	YES	NO
625	NO	NO	YES	NO
384	YES	YES	NO	YES

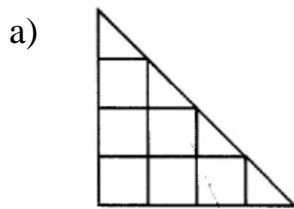
12) Side = 15 cm

Side of a square is  $s=15$  cm.

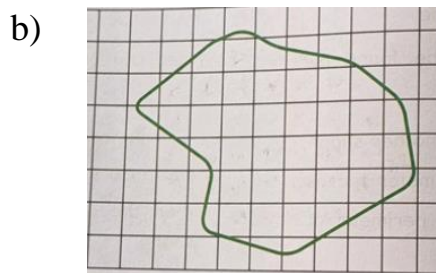
Perimeter of square =  $4 \times \text{side}$  \_\_\_\_ (1)

$=4 \times 15 = 60$  cm · \_\_\_\_ (2)...

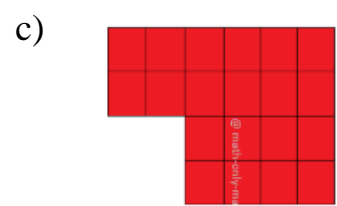
13) Find the areas of the following figures by counting square: (■ = 1 square cm)



8sq.cm \_\_\_\_ (1)



35sq.cm \_\_\_\_ (1)



20sq.cm \_\_\_\_ (1)

\*\*\*\*\*The End \*\*\*\*\*