B.K. BIRLA CENTRE FOR EDUCATION

SARALA BIRLA GROUP OF SCHOOLS
A CBSE DAY-CUM-BOYS' RESIDENTIAL SCHOOL

TERM-1 EXAMINATION 2024-25
MATHEMATICS (041) ANSWER KEYS

CLASS: V | Duration: 3 hrs.
Date: 15.09.24 | MAX.MARKS:80
Name: | Exam RNo:

General Instructions:

1. This Question Paper has 5 Sections A-E.
2. Section A has 20 MCQs carrying 1 mark each
3. Section B has 8 questions carrying 02 marks each.
4. Section C has 8 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.

SECTION-A $(20 \times 1 = 5)$

General Instructions:

1. This Question Paper has 5 Sections A-D.
2. Section A has 20 MCQs carrying 1 mark each
3. Section B has 8 questions carrying 02 marks each.
4. Section C has 8 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.

SECTION- A

Choose the correct answer.

$(20 \times 1 = 20)$

1) In 9,62,041 the place value of 2 is:
   (a) 2,000 (b) 200 (c) 20 (d) 20,000
2) Greatest 7-digit number is
   (a) 99, 89,999 **(b) 99, 99,999** (c) 10, 00,000 (d) 0123
3) 1234 rounded off to the nearest hundred is
   (a) 1230 **(b) 1200** (c) 1235 (d) none of these
4) Find the product 49 × 10,000 =
   (a) 49,000 **(b) 4, 90,000** (c) 40,900 (d) none of these
5) Numeral for six lakhs eighty two thousand seven hundred is
   (a) 68,270 (b) 62, 80,700 (c) **6, 82,700** (d) none of these
6) Use the property: - $1234 \div 1234 =$ _____
   (a) 1234 (b) 12341 **(c) 1** (d) none of these
7) How many prime numbers are there between 1 and 100?
   (a) 24 **(b) 25** (c) 20 (d) none of these
8) What is measure of straight angle?
   (a) 130^0 (b) 90^0 (c) **180^0** (d) infinitely many

9) Every polygon has at least _____ sides.
(a) 1 (b) 2 **(c) 3** (d) 4

10) Stumps of a wicket is example of  _____
(a) Parallel line (b) horizontal (c) perpendicular (d) none of these

11) Which of the following has no end points?
(a) A line (b) a ray (c) a line segment (d) none of these

12) Which of the following numbers is divisible by 2?
(a) 11 **(b) 26** (c) 33 (d) none of these

13) A number which has only two factors is called a
(a) Prime number (b) odd number (c) even number (d) composite number

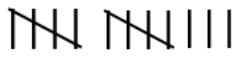
14) A fraction that has the numerator smaller than the denominator is
(a) Proper fraction (b) Improper fraction (c) Unit fraction (d) None of these

15) Use the property:- (759 + 493) + 825 = (759 + _____) + 825
(a) 759 (b) 825 **(c) 493** (d) None of these

16) Simplest form of $\frac{6}{8}$ is
(a) $\frac{3}{7}$ (b) $\mathbf{\frac{3}{4}}$ **(c)** $\frac{4}{3}$ (d) None of these

17) $\frac{2}{5}$ *and* $\frac{3}{5}$ are
(a) Unlike fraction (b) like fraction (c) equivalent fraction (d) None of these

18) The reciprocal of $\frac{12}{7}$ is
(a) $1\frac{5}{7}$ (b) $2\frac{10}{7}$ **(c)** $\mathbf{\frac{7}{12}}$ (d) None of these

19) Which number is represented by the tally marks?

(a) 13 (b) 14 (c) 12 (d) 11

20) The pie chart below shows children's subject preferences.

What is the least preferred subject?
(a) French **(b) German** (c) Sanskrit (d) None of these

SECTION -B **(8 × 2 = 16)**

21) Convert the following fractions as per directed.
a) $\frac{25}{6}$ (mixed fraction) = $\mathbf{4\frac{1}{6}}$ _____**(1)**
b) $3\frac{4}{5}$ (improper fraction) = $\mathbf{\frac{3\times5+4}{5} = \frac{19}{5}}$ _____**(1)**

OR

Solve and write the answer in the simplest form: $\frac{12}{20} + \frac{3}{20}$

$= \frac{12+3}{20} = \frac{15}{20}$ _____(1)

$\frac{15\div5}{20\div5} = \frac{3}{4}$ _____(1)

22) Divide and write the answers.

s. no	Division	Quotient	Remainder
1	9832 ÷ 100	**98**	**32**
2	31475 ÷ 1000	**31**	**475**

23) Multiply the following numbers

(a) 7,000 × 300 = **21,00,000** _____(1) (b) 20 × 300 = **6,000**_____(1)

OR

There were 28,798 participants from each country in a sports meet. How many participants participated from 19 countries?

Number of participants per country = 28,798

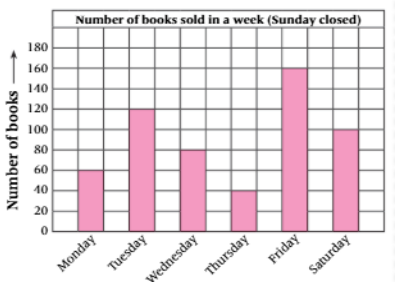
Number of countries = 19

So the total participants = 28,798 × 19. _____(1)

= 547,162 _____(1)

So there were 547,162 participants from the 19 countries combined.

24) The following bar graph shows the sale of books per day by a shopkeeper in a particular week. Read the bar graph carefully and answer the following



a) In which day the minimum number of books sold? How many books were sold on this day= **Thursday i,e 40** _____(1)

b) How many books were sold on Tuesday = **120** _____(½)

c) On which day, the maximum number of books were sold: **Friday** _____(½)

25) Write the following numbers in ascending and descending order.

32,45,802; 32,46,208; 42,46,800; 24,42,208

Ascending order = 24,42,208 ; 32,45,802 ;32,46,208 ;42,46,800 ; _____(1)

Descending order = 42,46,800 ;32,46,208 ; 32,45,802 24,42,208 ; _____(1)

26) Use the factor tree method to write the prime factorisation of 150.

150

**/ **

2 75

**/ **

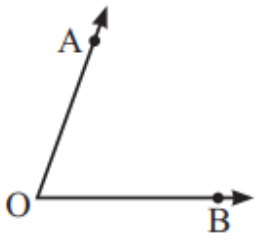
3 25

**/ **

5 5 **150 = 2× 3 × 5 × 5** _____(2)

27) Find the missing values in the equivalent fractions: $\frac{5}{6} = \frac{(\quad)}{24} = \frac{5\times4}{6\times4} = \frac{20}{24}$ _____(2)

28) Measure the given angles using protractor.



m∠ABC = 65^0 _____**(2)**

SECTION -C **$(8 \times 3 = 24)$**

29) Write improper, mixed, and unit fractions in the corresponding rows.

$2\frac{3}{8}$, $5\frac{2}{3}$, $\frac{3}{8}$, $\frac{1}{6}$, $\frac{17}{11}$, $\frac{1}{19}$, $\frac{7}{12}$ **($\frac{1}{2}$)mark for each correct answer**

Proper fraction	$\frac{3}{8}$; $\frac{7}{12}$
Mixed fraction	$2\frac{3}{8}$; $5\frac{2}{3}$
Unit fraction	$\frac{1}{6}$; $\frac{1}{19}$

30) Place commas between the digits and write the number names for the following as per directed:

a) 22109653 (Indian systems)

2,21,09,653: Two crore twenty-one lakh nine thousand six hundred fifty-three. _____**($1\frac{1}{2}$)**

b) 38106914 (International systems)

38,106,914: Thirty-eight million one hundred six thousand nine hundred fourteen____**($1\frac{1}{2}$)**

31) Solve the following fractions:

a) $\frac{8}{9} \times \frac{3}{4} = \frac{2}{3}$ ____**($1\frac{1}{2}$)**

b) $\frac{4}{7} \div \frac{5}{7} = \frac{4}{5}$ ____**($1\frac{1}{2}$)**

OR

Aditya has $4\frac{2}{3}$ chocolate bars and Rahul has $4\frac{1}{5}$ chocolate bars. How many chocolate bars do they have altogether?

Aditya has $4\frac{2}{3}$ chocolate bars

Rahul has $4\frac{1}{5}$ chocolate bars

They have altogether **$= 4\frac{2}{3} + 4\frac{1}{5}$** _____**(1)**

$= \frac{14+21}{15} = \frac{35}{15}$ _____**(2)**

32)Subtract and verify answer: 81,62,549 – 80,55,672

81,62,549
– 80,55,672

1,06,877 ____(2)

Verification (Add the difference back to the smaller number):

80,55,672 + 1,06,877 = ?

80,55,672
+ 1,06,877

81,62,549 ____(1)

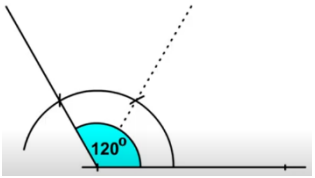
33) Every time a uniform shopkeeper sells an item, he notes it down in his diary.

Shirt Belt Tie Shoe Socks Skirt Belt Socks Tie Skirt
Belt Shirt Skirt Belt Tie Shirt Belt Skirt Shoe Belt Skirt

Item	Frequency	Tally Marks
Shirt	**3**	|||
Tie	**3**	|||
Shoe	**2**	II
Skirt	**5**	𝍸
Socks	**2**	II
Belt	**6**	𝍸 |

($\frac{1}{2}$)mark for each correct answer

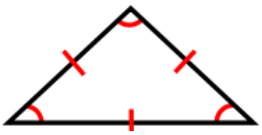
34) Construct an angle XYZ of measure 120° with the help of a protractor.



____(3)

OR

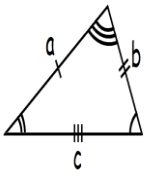
Classify the triangle according to sides, that is, equilateral, isosceles and scalene triangles



Equilateral __(1)

Isosceles __(1)

c)



scalene__(1)

35) List the common factors and determine the HCF of 12 and 18.

Factors of 12: 1, 2, 3, 4, 6, 12 _____(1)

Factors of 18: 1, 2, 3, 6, 9, 18 _____(1)

Common factors: 1, 2, 3, 6

The HCF (Highest Common Factor) is 6. _____(1)

36) Find the LCM by common multiples: 4, 6 and 9

Multiples of 4:

4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, ...

Multiples of 6:

6, 12, 18, 24, 30, 36, 42, 48, 54, ...

Multiples of 9: _____(2)

9, 18, 27, 36, 45, 54, 63, 72, ...

36 appears in all three numbers .

LCM of 4, 6, and 9 is 36. _____(1)

SECTION -D $(4 \times 5 = 20)$

37) Sumitra has two ribbons of lengths 25 inches and 35 inches. She wants to cut these ribbons into strips of equal length. What is the longest possible length for the strips?

Highest Common Factor (HCF) of 25 inches and 35 inches .

Factors of 25= 1, 5, 25 _____($1\frac{1}{2}$)

Factors of 35=1, 5, 7, 35 _____($1\frac{1}{2}$)

Common factors: 1, 5 _____(1)

Highest Common Factor (HCF) is 5 _____(1)

The longest possible length for the strips is 5 inches.

OR

Using the divisibility test, determine which of the following are divisible by 2, 3, 5, 6 and10

($\frac{1}{2}$)mark for each correct answer

S.No.	Numbers	2	3	5	6	10
1	**5430**	√	√	√	√	√
2	**12345**	×	√	√	×	×

38) Draw a circle of radius 4 cm. Mark its centre O. Draw a chord AB of length 6 cm in it.

39) Form the greatest and the smallest 7-digit numbers with the digits 8, 5, 2, 4, 0,6 and 1. Use all digits at least once to form the 7-digit numbers.

a) The greatest7-digit numbers is 86,54,210 and _____(1)

the smallest 7-digit numbers is 10,24,568 _____(1)

b) Make Indian place value chart and write both the numbers in it. **_____(2)**

	TL	L	TTH	TH	H	T	**O**
G	8	6	5	4	2	1	0
S	1	0	2	4	5	6	8

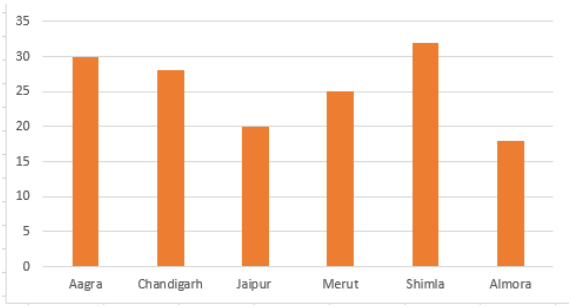
c) Write the expanded form for the greatest number.

8,000,000 + 600,000 + 50,000 + 4,000 + 200 + 10 + 0 _____(1)

40) The number of buses going from Delhi to other cities are:

Delhi to	Agra	Chandigarh	Jaipur	Meerut	Shimla	Almora
Buses	30	28	20	25	32	18

Draw a bar graph for the data using a suitable scale. _____**(5)**



**********ALL THE BEST**********