| Subject - MATHEMATICS | Maximum Marks - 80 |
| :---: | :---: |
| Class - V | Time - 3 Hours |
| To be filled by the student |  |
| Name of the student: |  |
| Name of the School: |  |
| Roll number: | Section: |

Signature of the Invigilator : $\qquad$
Signature of the Examiner : $\qquad$
Signature of the Checker $\qquad$ Marks Obtained $\square$

## KNOWLEDGE (20 MARKS)

Fill in the gaps with the right answer.
$(1 \times 10=10)$

1. The shaded portion in the following shape is $\qquad$ . (write in fractions)

2. The number six lakh sixty is written as $\qquad$ .
3. The number 1 crore is written as $\qquad$ .
4. The perimeter of a square is 4 cm . The side of the square is $\qquad$ .
5. A right angle measures $\qquad$ degrees.
6. $1 / 4$ part of a rupee is equal to $\qquad$ .
7. We get the number $\qquad$ when we add 1 to $99,99,999$.
8. The length of the boundary of a shape is called its $\qquad$ .
9. The hands of a clock make an angle of $\qquad$ at 3 o'clock.
10. The number ' 3 ' will look the same after you give a $\qquad$ turn to it.
II. Do as directed. $(2 \times 5=10)$
11. Write the first 10 multiples of 12 .
12. Draw 2 more lines to complete the shape. Its area should be less than 4 square cm.

13. Write all the factors of 72.
14. Mohan took a loan of Rs. 5500 from his friend. He paid back Rs. 550 every month for a period of 1 year. How much did he pay back?
15. What comes next in the sequence?


## UNDERSTANDING(20 MARKS)

I. Fill in the gaps with the right answer.

1. In the following picture, shape 1 has rotated by $\qquad$ degrees.


Shape 1
2. The first common multiple of 5 and 10 is $\qquad$ _.
3. One of the common factors of 6 and 8 is $\qquad$ .
$4 \frac{\mathbf{1}}{6}$ of an hour is equal to $\qquad$ minutes.
5.What portion of the flag is occupied by the middle portion?
(Choose from the options given below)
( one-third, less than one-third, more than one-third)

6. Which of the following has only obtuse angles? $\qquad$


## II. Do as directed:

1. Look at the following shapes. Draw how they look on $\frac{1}{4}$ and $\frac{1}{2}$ turn.

| Shapes | on $\frac{1}{4}$ turn | on $\frac{1}{2}$ turn. |
| :--- | :--- | :--- |
|  |  |  |

2. Change the following two numbers into special numbers.
a) 132
b) 267
3. What is the area and perimeter of the stamp? The following grid has squares of side 1 cm .


Area: $\qquad$

Perimeter $\qquad$
4. Colour $\frac{\mathbf{1}}{\mathbf{8}}$ of the following circle.

5. Given below is a rectangle. Draw 2 lines to divide it into 1 rectangle and 2 equal triangles.
What is the area of the new rectangle? $\qquad$
What is the area of each of the triangles? $\qquad$

|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |

## III.Do as directed:

1. Draw the hands of the clock when they make an angle that is more than a right angle. Also write the time.

VI. Fill in the gaps with the right answer.
2. If $\frac{\mathbf{1}}{\mathbf{8}}$ of a collection of roses is equal to 4 , then there are a total of $\qquad$ roses in the collection.
3. 2 coins of half rupee and 4 coins of quarter-rupee is equal to $\qquad$ rupees.
4. $10,200+20,020=$ $\qquad$
5. I am less than half of 100 . I am a multiple of 7 . The sum of my digits is 8 . I am the number $\qquad$ _.
6. $\frac{2}{5}$ of 20 is equal to $\qquad$ .
7. The area of the square given below is $\qquad$ .

Area of 1 square $=1$ sq.cm


## VII. Do as directed:

$(2 \times 5=10)$

1. Fill the boxes of the square using numbers from 41 to 49 .

Rule: The numbers on each line should add up to 135.

2. Look at the price list given below.

| Item | price $/ \mathrm{kg}$ in rupees |
| :--- | :---: |
| Potato | 46 |
| Tomato | 60 |
| Brinjal | 36 |
| Peas | 86 |

a. What will be the cost of $11 / 4 \mathrm{~kg}$ brinjals?
b. I bought some quantity of tomatoes and paid Rs. 150 for it. What quantity of tomatoes did I buy?
3. There are 120 children in a class. One-third of them joined Art classes and one-sixth of them joined Dance classes and the remaining children joined Sports classes. How many students joined Arts, Dance and Sports classes?
4. When fresh fish is dried it becomes $\frac{\mathbf{1}}{\mathbf{3}}$ its weight.

Cost of fresh fish : Rs. 50
Cost of dried fish : Rs. 100
a. We get $\qquad$ kg dried fish from 150 kg fresh fish.
b. We have to pay $\qquad$ for buying 150 kg fresh fish.
5. Meera had some marbles with her. She made groups of 4 and groups of 5 with them. Each time she was left with 2 seeds. What is the smallest number of marbles that Meera had?

1. The following rectangle shows the number of hours in a day.


$$
\square=1 \text { hour }
$$

Sumanth plays for $\mathbf{1 / 1 2}$ of the day. Show the number of hours by colouring the squares in green.
He studies for $1 / 8$ of the day. Colour the number of hours blue.
He sleeps for $1 / 4$ of the day. This is equal to $\qquad$ hours.

## PROBLEM SOLVING (20 marks)

## I. Fill in the gaps with the correct answer.

1. Which among the following will look the same on $\frac{\mathbf{1}}{\mathbf{3}}$ turn? Put a $(\sqrt{ })$ mark on it.

2. In the sequence given below, the shape rotates each time by $\qquad$ degrees in the $\qquad$ direction.




3. Which of the following word looks the same on half a turn? Tick it.
MOON
BIB
SWIMS
DEED
4. Look at the shape given below. Draw a line on the shape in the box to show where you will keep a mirror to get the shape given next to it.

5. The following pattern is formed by shading $\qquad$ portion of the shape.


## 6.Do as directed:

The following tile pattern is made using two different kinds of tiles. Circle the 2 tiles that are used for making this pattern.


## II. Do as directed:

1. Mr. Ram wants to tile the floor of a room. The size of the room is 8 feet x 16 feet. He has tiles of sizes : 2 feet x 3 feet, 2 feet x 4 feet and 3 feet x 3 feet. Which size of the tile should he choose so that he can lay them without cutting?
2. Three friends Raju, Tara and Ravi are at the number 1. Raju jumps 2 steps at a time, Tara jumps 3 steps at a time and Ravi jumps 4 steps at a time. At which number will all the three friends meet for the first time?
3. Write the factor tree for 64 .

## 64

4. Study the number pattern and complete it.
$1 \times 9-1=08$
$21 \times 9-1=188$
$321 \times 9-1=2888$
$4321 \times 9-1=$ $\qquad$
$54321 \times 9-1=$ $\qquad$
$\qquad$ x $9-1=$ $\qquad$
5. Vani bought a cake for seven and a half rupees. She gave the shopkeeper a 10 -rupee note and he gave her the change. If the shopkeeper gave her the money back in half and quarter rupee coins, what coins would she have got?

## IX. III. Do as directed:

1. Find the common factors of 48 and 60.

