HALF YEARLY EXAMINATION - 2019-20
CLASS - V
SUBJECT : MATHS (With Answer)

M.M. 80

Time : 2:30 Hrs.

Name...Class & Sec....................Roll No. ....

Date.........................Sign. of Invigilator.........................Sign. of Examiner ....

MARK SHEET

Competencies	Concept (40)		Ability to compute	Problem Solving Ability	Total
	Knowledge	Understanding			
V.P.	20	20	20	20	80
Marks Obtained					

CONCEPT

(A) (KNOWLEDGE)

(1x8 = 8)

V.S.A.

Q.1   Write the next multiple of 3, 6, ...9....., ...12.... .

Q.2   ....1............. is the factor of every number.

Q.3   Write the numerals for the following : Twenty Two Lakh Fifty Four Thousand Nine Hundred Sixty Five : ......2254965..........................

Ans.   ....2254965...

Q.4   What kind of angle it is –
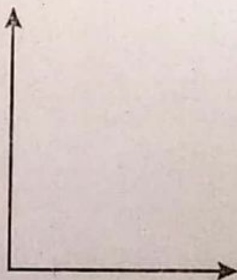
Right Angle

Q.5   ....2.................... is the only even prime number.

Q.6   37 is a ....prime.... number. (prime / composite)

(P.T.O.)

Q.7 Write in expanded form –

99, 99, 99, 999 = ...9000000000 + 900000000 + 90000000

+ 9000000 + 900000 + 9000 + 900 + 90 + 9

Q.8 Fill >, < or =

5, 30, 54, 700 ___<___ 7, 54, 30, 700

S.A. (2x4 = 8)

Q.9 Write the place and place value of 3 according to Indian place value system :–
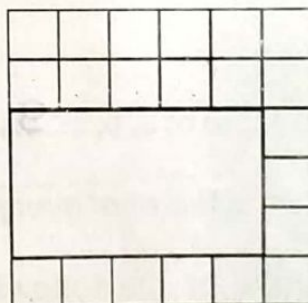
78367921 = Place ....Lakh...........

Place Value ...300000...........

Q.10 Find out the perimeter and area of the given rectangle.

Where 1 box = 1 sq. cm.

(a) Perimeter = ...16....... cm.

(b) Area = ...15..... sq cm.

Q.11 Write all the prime number between 20 and 30.

____23, 29____

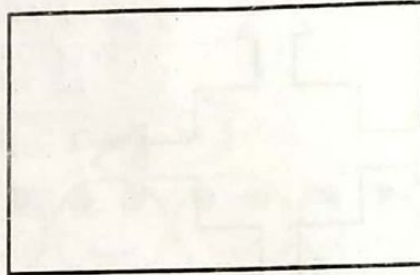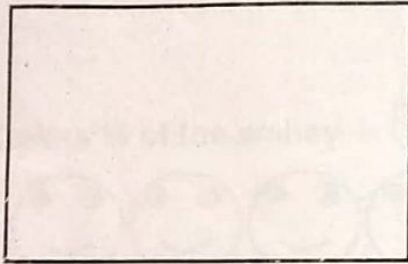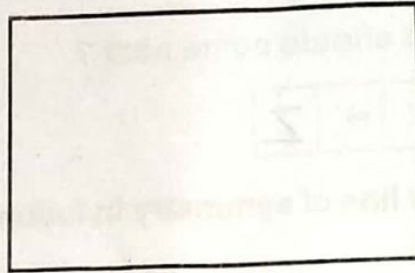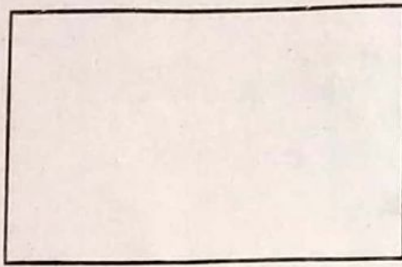**Q.12** Draw factor tree for the number 18.
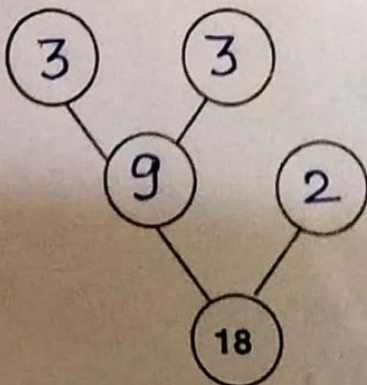
L.A.   **(1x4 = 4)**

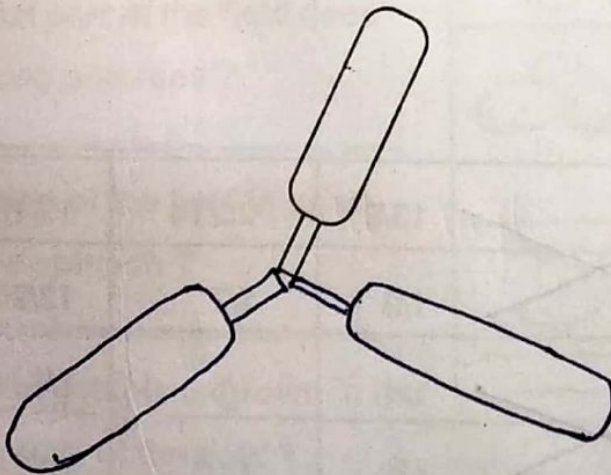**Q.13** Divide all the rectangles in six equal parts by different ways :–

(B) UNDERSTANDING

V.S.A.   **(1x6 = 6)**

Q.14 ....12............ is multiple of 4 (tick the correct option)

(a) 2   (b) 6   (c) 12

Q.15 Numbers having only 2 factors are called........prime.........numbers.

                                                                        (Prime/ Composite)

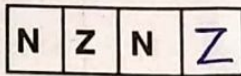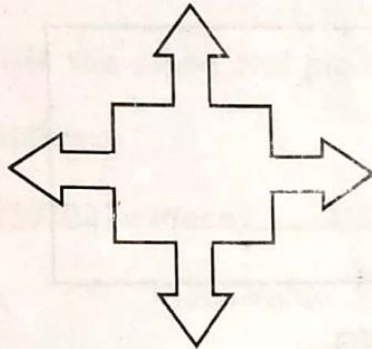**Q.16** The picture shows one- third of the blades of a fan. Complete the picture by drawing the other blades.

                                                                        (P.T.O.)

Q.17 Write the short form for the following :

$9000004 \, 900000 + 200 + 30 =$ ....9900230....................................

Q.18 What should come next ?

N	Z	N	Z

Q.19 Draw line of symmetry in following figure.

S.A. (2x5 = 10)

Q.20 Change this shape in such a way that the new shape remains the same after ½ turn.
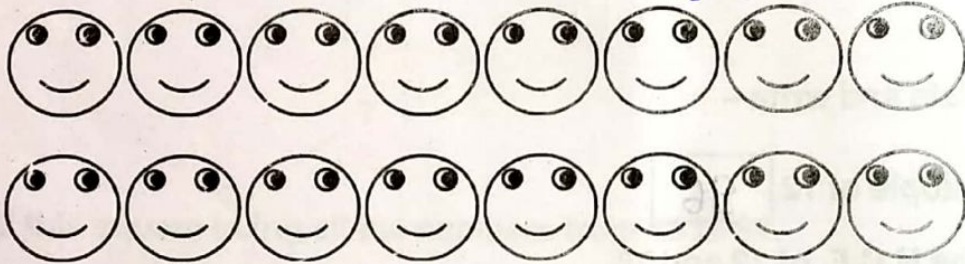
Sol.

Q.21 Match the following :–

Proper Fraction		13/9	23/14	19/10
Improper Fraction		1/3	2/7	12/25
Mixed Fraction		1/4	1/6	1/8
Unit Fraction		4½	15½	30½

Q.22   Make angles with the help of Protractor.   (Do yourself)

(a)   60⁰   (b) 120⁰

Q.23   Colour ¼ of the smiley   (Colour any 4)

Q.24   Complete the number pattern –

11, 22, 33, ...44...., ...55........

L.A.   (1x4 = 4)

Q.25 Ramu's vegetable field has 9 equal parts.

(i)   Which part of the field is used
     to grow capsicum ?

Ans. $\frac{1}{9}$......................................

(ii)   On what part of the field does
      he grows potatoes ?

Ans. $\frac{2}{9}$.....................................

(iii)   What part of the field is used
       to grow spinach ?

Ans. $\frac{1}{9}$..

(iv)   Which vegetable is grown in the
      largest part of the field ?

Ans.   .....Tomato.......................
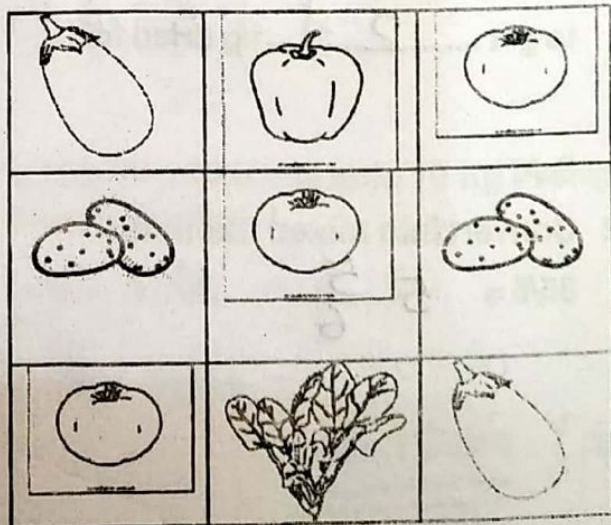
(P.T.O.)

(C) ABILITY TO COMPUTE

VSA   (1x6 = 6)

Q.26 Add the given fractions – 2/4 + 1/4 = _____ $\frac{3}{4}$ _____ .

Q.27 One more than 9, 99, 999 is _____ 1000000 _____ .

Q.28 Subtract : 9848476 – 3507469

$$\begin{array}{r} 9848476 \\ -\ 3507469 \\ \hline 6341007 \end{array}$$

Q.29 Calculate and write –

8th multiple of 12 $\boxed{96}$

Q.30 Find the H.C.F. of 12 and 16.

$$12 = \boxed{2} \times \boxed{2} \times 3$$
$$16 = \boxed{2} \times \boxed{2} \times 2 \times 2$$
$$\overline{HCF = 2 \times 2 = 4}$$

Q.31 When fresh fish is dried it becomes 1/3 its weight. We dry 6 kg of fresh fish

to get ....2........ kg dried fish.

S.A.   (2x5= 10)

Q.32 Convert into mixed fraction.

(i)   35/6 = $5\frac{5}{6}$ (ii) 23/ 4 = $5\frac{3}{4}$

Q.33 Draw grids of 16 squares and make a pattern with

2/8 red,   4/8 Yellow,   2/8 green

R	R	R	R
Y	Y	Y	Y
Y	Y	Y	Y
G	G	G	G

$\frac{2}{8}$ red = 4 red

$\frac{4}{8}$ Yellow = 8 yellow

$\frac{2}{8}$ green = 4 green

Q.34 Fill this square using all the numbers from 46 to 54.

Rule : The total of each line is 150.

53	48	49
46	50	54
51	52	47

Q.35 Floramma sells Prawns fish for Rs. 150 ⊚ kg. She has sold 10 Kg Prawns fish today. How much money did she get for that ?

1kg Prawns fish sells = Rs 150

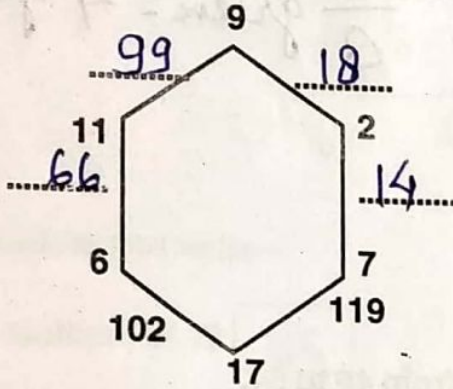10 kg Prawns fish sells = 150 × 10

= Rs 1500 (Ans)

Q.36 Find the prime factor of 90 by prime factorization method –

$$\begin{array}{c|c} 2 & 90 \\ \hline 3 & 45 \\ \hline 3 & 15 \\ \hline 5 & 5 \\ \hline & 1 \end{array}$$

L.A.

(4x1 = 4)

Q.37 Look at the pattern of numbers in hexagon and fill in the blanks :

9
99 18
11 2
66 14
6 7
102 119
17

(D) PROBLEM SOLVING ABILITY

V.S.A.

(1x6 = 6)

Q.38 Cost of a book is Rs. 45. What will be the cost of 5 such books ?

Ans.

Cost of a book = Rs 45

Cost of 5 books = 45 × 5

Rs 225

Ans - Rs 225

Q.39 How many 50 paise coins will make one rupee ?

Ans _____2_____

Q.40 6/4 − 5/4 =
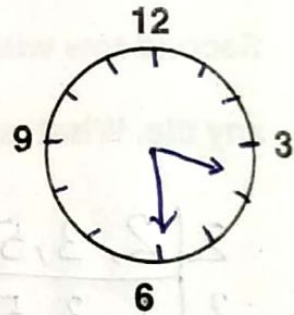
(a) 1/4   (b) 11/4   (c) 1/8

Q.41 Find : 2/3 of 90

$$\frac{2}{3} \times 90 = \frac{180}{3} = 60$$

Q.42 Write smallest of 8 digit number using digits 4, 3, 8, 5, 6, 0, 7, 1

10345678

Q.43 Draw the hands of the clock if time is 3:30

S.A.   (2x5 = 10)

Q.44 Write all the factors of

12 = 1, 2, 3, 4, 6, 12

30 = 1, 2, 3, 5, 6, 10, 15, 30

Q.45 The last year about two lakhs boats in our country. Half of them are without a motor. What is the number of boats without a motor ?

Ans. The number of boats without a motor $= 2 \times \frac{1}{2}$

$= 1$ lakh

[P.T.O.]

Q.46 Samir travels 80 kms in one day. How many Kms will he travel in 20 days ?

Ans. Samir travels in one day = 80 kms.

Samir travels in 20 days = $\dfrac{80 \times 20}{1600 \text{ Kms}}$
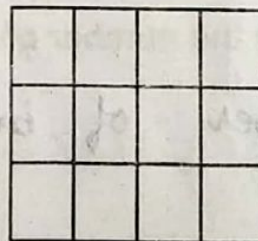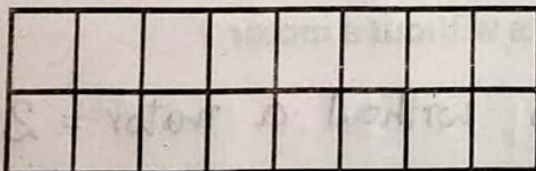
Ans. 1600 kms.

Q.47 The Mason decided to tile the path. He tiled the first row with 2 feet tile. Second row with 3 feet tile and third row with 5 feet tiles. He did not cut any tile. What is the shortest length of the path ?

Ans.

```
2 | 2, 3, 5
3 | 1, 3, 5
5 | 1, 1, 5
    1, 1, 1
```

The Shortest length of the path = 2 × 3 × 5

= 30 feet

Q.48 Which of these rectangle has the longest perimeter ?

(a)   (b)   (a)

L.A.   (4x1 = 4)

Q.49 Look at the price list –

Item	Tomato	Potato	Onion	Carrot	Gourd
Price in Rs. / kg	12	10	16	18	8

(i) How much does 2 kg of tomato cost ?

Ans.   2 kg of tomatoes cost = 2×12
                                                Rs 24 (Ans)

(ii) Which one is the cheapest vegetable ?

Ans.   Gourd

(iii) Which one is the most expensive vegetable ?

Ans.   Carrot

(iv) He bought a gourd of 4 kg. Find its cost ?

Ans.   4 kg of gourds cost = 8×4
                                          Rs 32   Ans