# KENDRIYA VIDYALAYA SANGATHAN

## BENGALURU REGION

## SUMMATIVE ASSESSMENT-II (2013-14)

CLASS: **VI**                                                                 **Time: 2 ½Hours**

**MATHEMATICS**                                                     **Max.Marks: 60**

### General Instructions:

*Section-A is 8 MCQ's with 1 mark each (Choose the correct option)    .*

*Section-B is 6 Questions of 2 marks each*

*Section-C is 8 Questions of 3 marks each*

*Section-D is 4 Questions of 4 marks each*

***One graph sheet will be provided.***

### SECTION - A                                                            1x8 = 8

1    The rule which gives the number of matchsticks that are required to make a pattern of  letter 'L' (using 'n' as variable) is:
    (a) n        (b) 2n        (c)3n        (d) 4n

2    There are 45 teachers working in a school. If the number of female teachers is 30 and the remaining are male teachers, the ratio of the number of female teachers to male teachers is:
    (a) 2: 1      (b) 1 : 2      (c) 3 : 2      (d) 2 : 3

3    The fraction represented by 'A' in the fig. given below is :



    (a)  1/2    (b) 1/3        (c) 2/3        (d) 3/5
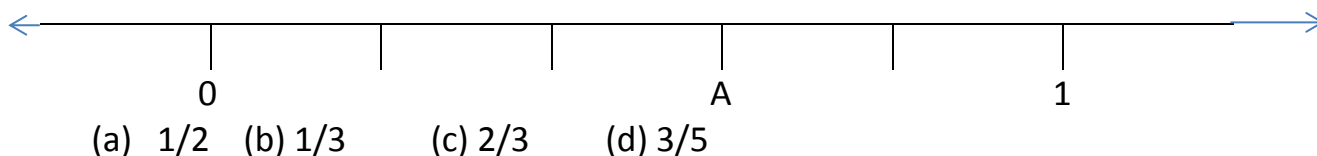
4    Decimal form of  $50 + \frac{1}{10} + \frac{6}{100}$  is:

  (a) 51.6   (b) 50.16   (c) 51.6   (d)5.16

5    Where will the hour hand of a clock stop if it starts from 6 and turns through 1 right angle?

(a) at 9   (b)at 12   (c) at 3   (d) at 6

6    Number of  lines of symmetry in an isosceles triangle is:

(a) 0       (b) 3      (c) 2      (d) 1

7    Which of the following has exactly 2 lines of symmetry?

(a)Rectangle    (b)Square   (c) Circle  (d)Scalene triangle

8    The perimeter of the rectangle given below is:

40cm

10cm

(a)400cm    (b) 200cm  (c) 50cm   (d) 100cm

**SECTION- B**                                        2 x 6 = 12

9    The following table gives the marks obtained by 40 students in a mathematics
     test .  Arrange these marks in the form of a table using tally marks.

| 3 | 5 | 6 | 8 | 7 | 4 | 1 | 6 |
|---|---|---|---|---|---|---|---|
| 4 | 6 | 7 | 5 | 2 | 3 | 5 | 4 |
| 1 | 7 | 8 | 6 | 6 | 9 | 5 | 6 |
| 5 | 3 | 4 | 9 | 4 | 6 | 8 | 7 |
| 6 | 9 | 9 | 4 | 6 | 7 | 3 | 8 |

How many marks are obtained  by  most of the students?

10   Find the solution of the following equations from the values given in the
     bracket.
      (i)   m + 9 = 18          (8,  9,  10 )

11   Find the distance travelled by Meena if she takes three rounds of a square park
     of side 65m.

12   Use decimals to express
     (i)60 mm  in  cm      (ii) 88m  in  km

13 Draw
    (i) a figure which has Infinitely many lines of symmetry
    (ii)an alphabet with exactly 2 lines of symmetry and show lines of symmetry.

14 Construct an angle of 60$^o$ using ruler and compasses and bisect it.

## SECTION – C                    3 x8 = 24

15 A pictograph is given below which shows the different modes of transport
    used by students of a school. Based on that, answer the questions given
    below.

| Modes of transport | No. of students        1😃 represents 100 students |
|---|---|
| Car | 😃😃😃 |
| Bus | 😃😃😃😃😃😃😃😃😃 |
| Two wheeler | 😃😃😃😃😃😃 |
| Auto Rickshaw | 😃😃 |

(i)How many students used car for going to school?

(ii)How many used bus?

(iii)What are total number of students?

16 Give expressions for the following:
    (a) 'm' multiplied by (-8)
    (b) If Sarita's present age is 'x' years, then her age after 3 years.
    (c) Sudha is 5 years younger to Radha. Present age of Radha is 'y' years.
        Then Sudha's age is-

17 Determine whether the following ratio form a proportion? If yes, then write the
    middle terms and extreme terms.
    200ml : 2.5 litre    and    Rs 4 : Rs 50

18 (i)Colour the figure below to show 3/4
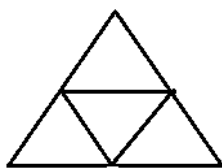


(ii) Add $1\frac{4}{5}$ and $\frac{3}{5}$

(iii)What fraction of a day is 8 hours?

19 Asha takes $3\frac{1}{5}$ minutes to walk across the school ground. Suman takes $\frac{15}{4}$ minutes to do the same. Who takes more time and by what fraction?

20 Suraj bought 10 kg vegetables. Out of this, 6 kg 500 gm is onions, 2 kg is tomatoes, 250 gm is green chillies, and the rest is potatoes. What is the weight of potatoes?

21 Draw a circle of radius 4cm. Draw any chord. Construct the perpendicular bisector of this chord.

22 What is the cost of tiling a rectangular piece of land , 500m long and 200m wide at the rate of Rs 8 per 100 square metre?

**SECTION-D**                                        **4x4 = 16**

**23** Following table gives marks obtained by Sonali in half yearly examination in different subjects.

| Subjects | English | Hindi | Maths | Science | Social Science |
|----------|---------|-------|-------|---------|----------------|
| **Marks** | 90 | 80 | 95 | 70 | 60 |

Draw a **bar graph** using a suitable scale to represent the above data.

**24** A car travels 90 km in 2 hours.
   (i)    How much time is required to cover 135 km with the same speed?
   (ii)   Find the distance covered in **5** hours with the same speed.

**25**   **(i)**    What is a reflex angle?
         **(ii)**   What type of triangle is Δ ABC with AB = BC and $\angle B$ = 90⁰
         **(iii)**  Draw a rectangular prism
         **(iv)**   Draw a triangular pyramid

**26** John wants to cover a room 3 m wide and 4 m long by squared tiles . If each square tile is of side 50cm then find the number of tiles required to cover the floor of the room.
                    **@@@@@@@@@@@@**