

**INDIAN SCHOOL SOHAR**  
**FORMATIVE ASSESSMENT 1 -2013**  
**MATHEMATICS**

**STD: VIII**  
**Date: 25-08-13**

**Marks : 25**  
**Time : 45min**

**Note:**  
**Do the calculations in the working column**  
**Give necessary formulae and steps wherever required**

**SECTION A**

**Question numbers 1 to 3 carry 1mark each**

1. The diagonals of a \_\_\_\_\_ are always equal.

- A. Rhombus                      B. Kite                      C. Rectangle                      D. Parallelogram

2. The class width of the class interval 90 – 120 is \_\_\_\_\_

- A. 90                      B. 120                      C. 31                      D. 30

3. A die is thrown. Find the probability of getting a number less than 3.

- A.  $\frac{1}{3}$                       B.  $\frac{1}{4}$                       C.  $\frac{5}{6}$                       D.  $\frac{2}{3}$

**SECTION B**

**Question numbers 4 to 7 carry 2marks each**

4. Construct a square with side 5cm using ruler and compass.

5. Is it possible to construct a quadrilateral PQRS in which  $PQ = 4\text{cm}$  ,  $QR = 8\text{cm}$  ,  $\angle Q = 120^\circ$  ,  $\angle P = 105^\circ$  and  $\angle R = 135^\circ$  ? If not why ?

6. Read the following table and answer the questions given below:

Age (in years)	5 – 10	10 - 15	15 - 20	20 - 25	25 - 30	30 - 35
Number of members	18	27	19	14	4	8

It shows ages in years of the members of a sports club?

- a) What is the upper limit of the class 30 – 35 ?
- b) How many members of the club have their age more than or equal to 25 years?
- c) What is the size of the class interval 20 – 25 ?
- d) How many members of the club are less than 10 years ?

7. A bag contains 5 white, 7 blue and 8 black balls. A ball is drawn at random. What is the probability that ball drawn is not a black ball?

**SECTION C**

**Question numbers 8 and 9 carry 3marks each**

8. Construct a rhombus with diagonals 6cm and 4.8cm.

9. The heights of the workers in a company are as follows :

Height (cm)	130 - 140	140 - 150	150 - 160	160 - 170
Number of workers	8	12	6	9

**SECTION D**

**Question numbers 10 and 11 carry 4marks each**

10. The enrolment of a secondary school is as below :

Classes	VI	VII	VIII	IX	X
Enrolment	1000	900	800	400	500

Draw a pie chart to represent the above data.

11. Construct a parallelogram KENT in which  $KE = 6.5\text{cm}$ ,  $KT = 4\text{cm}$  and  $\angle K = 60^\circ$

**\*\*\*\*\* THE END \*\*\*\*\***