INTERNATIONAL INDIAN SCHOOL –RIYADH
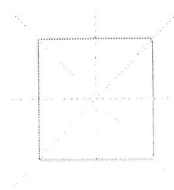
SA II MATHEMATICS WORKSHEET 2015-16
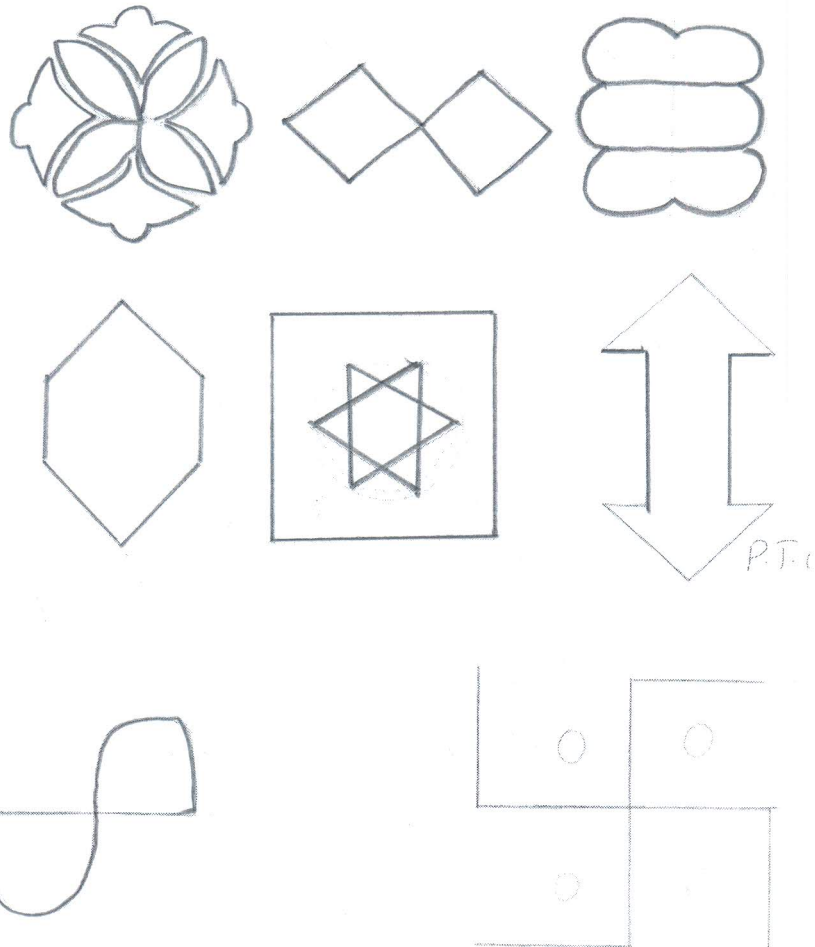
CLASS: VI

Practical Geometry

1. Draw any circle and mark points x, y and z such that 'x' is on the circle, y in the interior of the circle and 'z' is in the exterior of the circle.

2. Draw any line segment $\overline{AB}$, construct $\overline{PQ}$ without measuring AB such that the length of PQ is twice that of AB.

3. Draw any line segment $\overline{XY}$. Mark any point M on it. Through M draw a perpendicular to XY. (use ruler and compasses)

4. Draw a line segment of length 10 cm and construct its perpendicular bisector.

5. Draw a line segment of length 12 cm. using compasses divide it into four equal parts verify by actual measurement.

6. Draw an angle of measure 140^0 and construct its bisector.

7. Draw an angle measure 150^0 and divide it into four equal parts.

8. Construct with ruler and compasses, angles of following measures.

    a. 60^0,   b. 30^0 c. 90^0 d. 120^0 e 45^0

1) Can you draw a triangle which has
   a) exactly one line of symmetry
   b) exactly two lines of symmetry ?
   c) exactly three lines of symmetry ?
   d) no lines of symmetry ?
2) Find the number of lines of symmetry in each of the following shapes ?

3) Consider the letters of English alphabets, A to Z.
   List among them the letters which have
   a) Vertical lines of symmetry
   b) Horizontal lines of symmetry
   c) No lines of symmetry

4) Complete the following table :

Sl#	Shape	Rough Figure	Number of lines of symmetry
1.	Equilateral triangle		
2.	Square		
3.	Rectangle		
4.	Isosceles Triangle		
5.	Rhombus		
6.	Circles		
7.	Parallelogram		
8.	Scalene Triangle		

5) Write some application of symmetry in everyday life.

Q1) Find the ratio of the following:-

1. 4 min to 30secs
2. 500gm to 2kg
3. 55cm to 250m

Q2) The boys and girls in a school are in the ratio 4:5. The total strength of the school is 567. Find the number of boys and girls in school.

Q3) Rajiv and Shamita have Rs. 128 and Rs. 192 respectively. Express the amounts they had as a ratio in its simplest form.

Q4) Ron and Forb decided to divide their sweets in the ratio 3:4. They had 700 sweets in all. How many sweets did each one have?

Q5) Rs. 420 is divided between A, B and C in the ratio 1:2:3 respectively. Find each one's share.

Q6) Divide Rs. 750 among Seema and Hiba in the ratio 1:2.

Q7) In a school, out of 340 students, 200 are girls. Find the ratio of:

a. No of girls to total no of students
b. No of boys to no of girls
c. No of boys to total no of students

Q8) There are 102 male teachers and 51 female teacher s in a school. The total number of students is 3400. Find the ratio of:

a. Male teachers to female teachers
b. Male teachers to number of students
c. Female teachers to number of students

Q9) There are 55 people working in a company. If the number of females is 25 and the remaining are males, find the ratio of:

a. No of females to no of males
b. No of males to no of females