BHARATIYA VIDYA BHAVA'S
VADODARA

Date:	Constructions	Subject: Mathematics
Class:IX	Name of the student:	

1) Construct an angle of 45° and bisect it.
2) Construct a square of side 5cm and bisect each angle.
3) Construct angle of 22.5° and give steps of construction.
4) Draw and angle of 40° and divide it into four equal parts.
5) Draw a line segment AB of length 7.5cm and find its axis of symmetry.
6) Construct a rhombus whose diagonals are 4cm and 6cm in lengths.
7) Draw an acute angled triangle ABC. Construct perpendicular bisectors of AB and BC intersecting each other at O. Measure OA, OB and OC. Are they equal?
8) Construct a $\Delta PQR\ in\ which\ , PQ = 6cm\ \angle QPR = 60^{\circ}$ and QR+PR=13 cm
9) Construct a right angled ΔABC in which AB=5.6cm, BC=4.5cm and $\angle C=90^{\circ}$.
10) Construct a triangle ABC in which BC=8cm, $\angle B=45^{\circ}$ and AB - AC=3.5cm.
11) Construct a rectangle ABCD whose adjacent sides are 6.5cm and 8cm. Draw a perpendicular bisector for diagonal AC.
12) Construct an isosceles right angled triangle ABC with AB=BC=6cm and $\angle B=90^{\circ}$.Find AC.
13) Construct a right angled triangle ABC which is right angled at B and hypotenuse AC=5cm and AB=4cm.
14) Draw a triangle ABC in which AB=5.2cm, BC=3.5cm and $\angle B=110^{\circ}$.Draw the angle bisector on ∠B.
15) Construct an equilateral triangle whose altitude measures 4.5cm.
16) Construct a parallelogram in which lengths of diagonals are 8.5cm and 7.0cm and angle between them is 60°.
17) Construct a triangle whose perimeter is 9cm and the base angles are 30° and 45°.
18) Construct a triangle XYZ in which $\angle Y=30^{\circ}$, $\angle Z=90^{\circ}$ and XY+YZ+ZX=11cm.
19) Construct a right angled triangle whose perimeter whose perimeter is equal to 10cm and one acute angle is 60°.