



## MATHEMATICS CH-10 Constructions

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Class: IX Sec: \_\_\_\_

1. Construct a triangle  $ABC$  in which  $BC = 7\text{cm}$ ,  $\angle B = 75^\circ$  and  $AB + BC = 13\text{cm}$ .
2. Construct a triangle  $PQR$  in which  $QR = 7\text{cm}$ ,  $\angle Q = 45^\circ$  and  $PQ - PR = 3\text{cm}$ .
3. Construct a triangle  $ABC$  in which  $BC = 5\text{cm}$ ,  $\angle C = 60^\circ$  and  $AC - AB = 1.5\text{cm}$ .
4. Construct a triangle  $ABC$  in which  $\angle B = 60^\circ$ ,  $\angle C = 45^\circ$  and  $AB + BC + CA = 10\text{cm}$ .
5. Construct a triangle  $ABC$ , right angled at  $B$  in which  $BC = 4\text{cm}$  and  $AC + AB = 8\text{cm}$ .
6. Construct an equilateral triangle of side  $6\text{cm}$ .
7. Construct perpendicular bisector of side  $AB = 8.5\text{cm}$ .
8. Draw a line segment of  $10\text{cm}$  divide it into 4 equal parts. Write the measure of each part.