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MM 40

Time 1 h 30 min

1 Mark Each

1. Draw an angle of  $45^\circ$
2. Draw an angle of  $75^\circ$
3. Draw an angle of  $105^\circ$
4. In a rhombus diagonals are \_\_\_\_\_

6 Marks Each

***When Four sides and a diagonal are given***

5. Construct a quadrilateral PQRS where  $PQ = 5$  cm,  $QR = 6.5$  cm,  $RS = 5.5$  cm,  $PS = 5$  cm and  $PR = 7$  cm.
6. Draw a rhombus ABCD where  $AB = 3.5$  cm, diagonal  $AC = 5$  cm?

***When two diagonals and three sides are given***

7. Construct a quadrilateral PQRS, given that  $PQ = 5$  cm,  $PS = 5.5$  cm,  $RS = 5$  cm the diagonal  $PR = 5.5$  cm and diagonal  $QS = 6.8$  cm.

***When two adjacent sides and three angles are given***

8. Rectangle ABCD if  $AB = 7.5$  cm and  $BC = 5.5$  cm

***When three sides and two included angles are given***

9. Construct a quadrilateral ABCD, where  $AB = 4$  cm,  $BC = 5$  cm,  $CD = 6.5$  cm and  $\angle B = 105^\circ$  and  $\angle C = 90^\circ$
10. If possible to construct a rhombus ABCD where  $AC = 6$  cm and  $BD = 7$  cm? Justify your answer.

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