CHAPTER 13

More Questions for Practice

- Using a 15 cm scale, construct a line segment of length:
 (*a*) 6 cm
 (*b*) 4 cm
 (*c*) 3.5 cm
- **2.** Using a scale and a compass, construct:
 - (*a*) an angle AOB of measure 90° .
 - (*b*) an angle AOC of measure 45°.

(c) an angle BOD of measure $22\frac{1}{2}^{\circ}$

- **3.** Using a scale and a compass, construct:
 - (*a*) an angle XOY of measure 60°.
 - (*b*) an angle ZOY of measure 120°.
 - (c) an angle POY of measure 90°.
- **4.** Draw a line segment AB of length 5 cm. At A, construct an angle of measure 60°; and at B, an angle of measure 90°. Find the measure of angle C of the triangle ABC so formed.

A

- 5. Draw a line segment XY. From the points A and B draw lines perpendicular to \overline{XY} .
- 6. Draw a circle with centre O. Mark any chord PQ of this circle. Draw perpendicular bisector AB of the chord PQ. Find if AB passes through O.
- 7. Draw a square ABCD. Join its diagonal AC. From D, draw a perpendicular to the diagonal AC. Does it pass through A?
- 8. Sketch an angle, say AOB, of any measure. Divide it equally into four parts.
- **9.** Sketch an angle MNP of any measure. Construct another angle XYZ such that $m \angle XYZ = m \angle MNP$.
- **10.** Using a ruler and a compass, construct an equilateral triangle ABC. Construct perpendicular bisectors of \overline{AB} , \overline{BC} and \overline{AC} . Do these meet at a point? Draw a circle, taking this meeting point as its centre, passing through A, B and C.





(*d*) 5.2 cm

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