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MOME PRACTICAL GEOMETRY

CLASS - VI

Ch-14 Practical Geometry (Term-2)

Q1 Draw three circles of radii 2.5 cm, 3 cm and 4 cm with the same centre.

Q2 Construct angles of following measures using ruler and compasses

(i)  $45^\circ$  (ii)  $120^\circ$  (iii)  $75^\circ$  (iv)  $105^\circ$  (v)  $180^\circ$

Q3 Draw an angle of  $60^\circ$ . Make a copy of the angle using ruler and compasses.

Q4 Draw line segment  $\overline{PA}$  of length 8 cm. Find the point R on it such that  $PR = QR$ .

Q5 Draw a line segment of length 7 cm. Mark a point outside the line segment. Draw a perpendicular from the point to the line segment.

Q6 Given  $\overline{AB}$  of length 4.2 cm, construct  $\overline{PM}$  such that the length of  $\overline{PM}$  is thrice of  $\overline{AB}$ . Verify by measurement.

Q7 Construct  $\overline{PA}$  of length 6.8 cm. From this cut off  $\overline{PR}$  of length 2.6 cm. Measure  $\overline{AR}$ .

Q8 Given  $\overline{AB} = 4.5$  cm and  $\overline{CD} = 2.5$  cm. Construct a segment whose length is equal to the sum of length of these segments.

Q9 Given  $\overline{AB} = 8.7$  cm and  $\overline{CD} = 4.3$  cm. Construct a line segment  $\overline{XY}$  such that length of  $\overline{XY}$  is equal to the difference between the length of  $\overline{AB}$  and  $\overline{CD}$ . Verify by measurement.

Q10 Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?

Q11 Draw a line segment of length 12 cm. Using compasses divide it into 4 equal parts.

Q12 Draw an angle measuring  $132^\circ$ . Divide it into 4 equal <sup>(2)</sup> parts.

Q13 Draw  $\angle POQ = 75^\circ$  and find its line of symmetry

Q14 Draw an angle  $\angle AOB$  such that  $OA = OB$   
Draw perpendicular bisectors of  $\overline{OA}$  and  $\overline{OB}$ . Let the perpendicular bisectors of  $\overline{OA}$  and  $\overline{OB}$  intersect at  $C$ . Measure  $\overline{AC}$  and  $\overline{BC}$ . Is  $\overline{AC} = \overline{BC}$  ?

Q15 Draw a line segment  $\overline{AB} = 10.2$  cm. Draw its perpendicular bisector using a pair of compasses. Let this bisector  $\overleftrightarrow{XY}$  meet  $\overline{AB}$  at  $C$ . Now fill in the following blanks

(a)  $\overline{AC} =$  \_\_\_\_\_ cm      (b)  $\overline{BC} =$  \_\_\_\_\_ cm

(c)  $\angle ACX =$  \_\_\_\_\_

Q16 Draw angles of measures given below and bisect them

(a)  $110^\circ$       (b)  $72^\circ$       (c)  $32^\circ$       (d)  $65^\circ$

Q17 With  $\overline{AB}$  of length 5.2 cm as diameter. Draw a circle.

Q18 Draw a circle of radius 4.2 cm. Draw a diameter  $\overline{AB}$  of the circle. Construct its perpendicular bisector. Does it pass through centre of the circle ?

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