

ICSE Class 9 Test: Rectilinear Figures

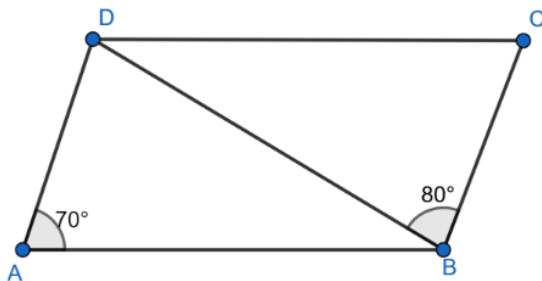
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Maximum Marks: 30

Duration: 60mins

1 mark Questions

1. If PQRS is a parallelogram, then $\angle Q - \angle S$ is equal to
 - a) 90°
 - b) 120°
 - c) 0°
 - d) 180°
2. The diagonals AC and BD of a parallelogram ABCD intersect each other at the point O. If $\angle DAC = 32^\circ$ and $\angle AOB = 70^\circ$, then $\angle DBC$ is equal to
 - a) 24°
 - b) 86°
 - c) 38°
 - d) 32°
3. In the figure given below, ABCD is a parallelogram in which $\angle DAB = 70^\circ$, $\angle DBC = 80^\circ$. What is the value of angle ADB.



- a) 60°
 - b) 70°
 - c) 80°
 - d) 90°
4. Which of the following statement is true for a parallelogram?
 - a) Its diagonals are equal.
 - b) Its diagonals are perpendicular to each other.
 - c) The diagonals divide the parallelogram into four congruent triangles.
 - d) The diagonals bisect each other.

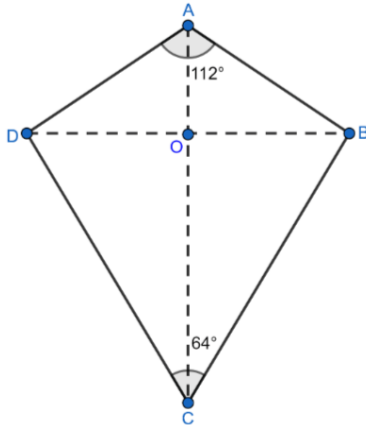
3 marks questions

5. ABCD is a square. A is joined to a point P on BC and D is joined to a point Q on AB. If $AP = DQ$, prove that AP and DQ are perpendicular to each other.
6. If ABCD is a rectangle in which the diagonal BD bisects $\angle B$, then show that ABCD is a square.

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7. In figure given below, ABCD is a kite and diagonals intersect at O. If $\angle DAB = 112^\circ$ and $\angle DCB = 64^\circ$, find $\angle ODC$ and $\angle OBA$.



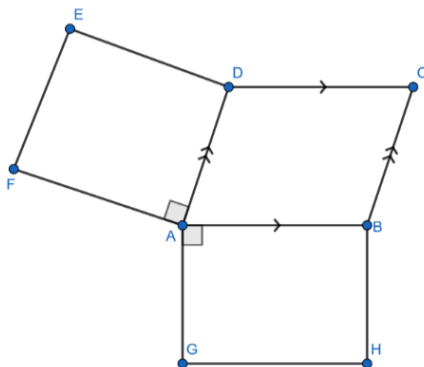
8. Construct a regular hexagon ABCDEF of side 3cm and measure $\angle ABC$

4 marks question

9. In parallelogram ABCD, the bisector of $\angle A$ meets DC in E and $AB = 2AD$. Prove that
- BE bisects $\angle B$
 - $\angle AEB =$ a right angle.

5 marks questions

10. Using ruler and compasses only, construct a parallelogram ABCD with $AB = 6$ cm, altitude $= 3.5$ cm and side $BC = 4$ cm. Measure the acute angles of the parallelogram.
11. In the figure given below, ABCD is a parallelogram, ADEF and AGHB are two squares. Prove that $FG = AC$.



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