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Sample Question Paper - SET 1

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Class	X	Subject	Mathematics (041)
Chapter	10 - Circles	Time Allowed	10 Minutes
Maximum Marks	4	Date	_____

GENERAL INSTRUCTIONS:

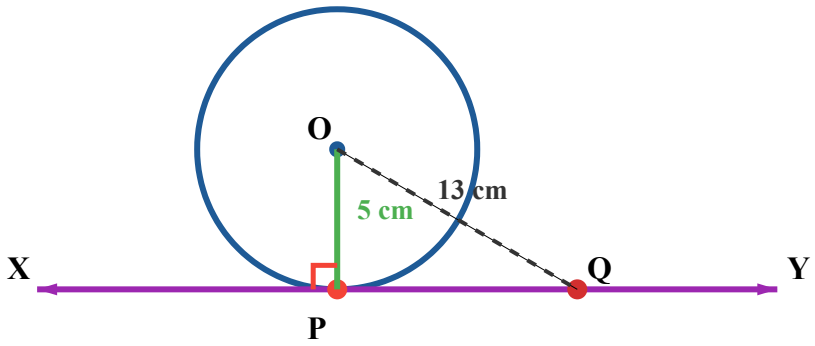
1. This question paper contains **2 questions** from Chapter 10 - Circles.
2. All questions are compulsory.
3. Question 1 carries 2 marks.
4. Question 2 carries 2 marks.
5. Use of calculator is not permitted.

HOW TO SUBMIT:

1. Solve this question paper in your notebook or on loose sheets.
2. Clearly write your **Name, CBSE Roll Number (if available), School Name, Place, and Date** on the first page.
3. Upload your solved paper at our website: **www.mathlove.in**
4. Check your **detailed report card on the website** after evaluation.
5. For any queries or assistance, WhatsApp us at **+91-7869553517**

SECTION A - 2 MARKS QUESTIONS

Q1. In the given figure, a circle with centre O has a tangent XY at point P. If a line through O meets the tangent at point Q such that OQ = 13 cm and the radius of the circle is 5 cm, find the length PQ. Also, verify your answer using Pythagoras theorem. **[2]**

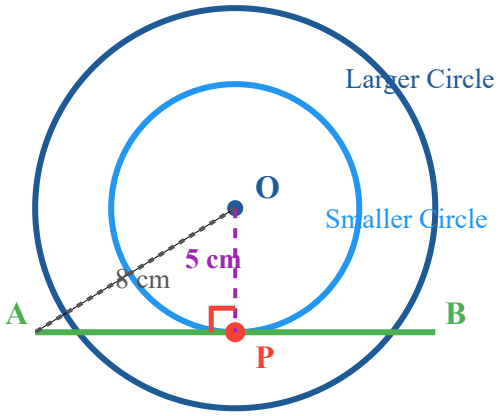


Given: OQ = 13 cm, OP = 5 cm

[Hint: Tangent is perpendicular to radius at point of contact]

SECTION B - 2 MARKS QUESTION

Q2. Two concentric circles with centre O have radii 8 cm and 5 cm. A chord AB of the larger circle touches the smaller circle at point P. Find the length of chord AB. Also, prove that AP = BP. **[2]**



[Hint: Perpendicular from centre to chord bisects the chord]

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