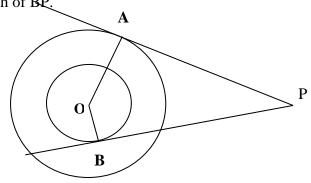
		INDIAN SCHOOL DARSA		NABET
Subject Workshe	: MATHEMATICS et no:10	Topic : CIRCLES	Date of Worksheet	: 24/10/2019
Resource	e Person:Mrs.Anu Liks	on		
Name of the Student		Class &Division:	Roll Number :	
	5	Section A -[Chapter based question	ons]	Marks
1.	perimeter of ∆ APQ.	e tangents in the given figure and A A X Q B C		3
2.	If $\triangle ABC$ is isosceles touching BC at L, prov	with $AB = AC$ and C (O, r) is the invertex that L bisects BC.	ncircle of the $\triangle ABC$	3
3.	In the figure, AB is a c	chord of length 16 cm of a circle of tersect at a point P. Find the length A		4

4. In the figure , there are two concentric circles with centre O of radii 5 cm and 3 cm. 2 From an external point P , tangents PA and PB are drawn to these circles. If AP = 12 cm , find the length of BP.

В



- 5. Two tangents PA and PB are drawn to a circle with centre O such that $\angle APB = 120^{\circ}$. Prove that OP = 2AP.
- 6. In figure PA and PB are tangents drawn from an external point P to a circle with centre O. LN touches the circle at M. Prove that PL + LM = PN + MN.

ISD/Mathematics Worksheet/X/2019-2020

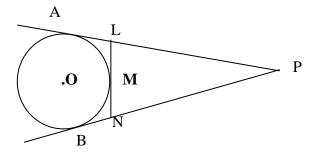
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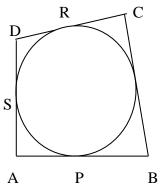




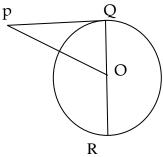
INDIAN SCHOOL DARSAIT DEPARTMENT OF MATHEMATICS



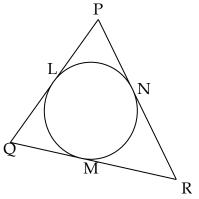
7. In figure , a circle touches all the four sides of a quadrilateral ABCD with AB = 6 4 cm , BC = 7cm and CD = 4 cm . Find AD.



8. In the given figure OQ : PQ = 3 : 4 and perimeter of $\Delta POQ = 60$ cm. Find the length of PQ, QR and OP.



9. In the given figure, a circle is inscribed in PQR with PQ = 10 cm, QR = 8 cm and PR = 12 cm. Find the lengths of QM, RN and PL.



4