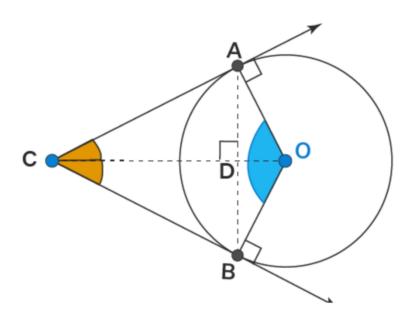


MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)



CIRCLES



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Material Curated by
Er. Sonal Agrawal Sir
Ex. Scientist, BARC Mumbai





10th - Maths

SN			Mark
1	A tangent to a circle is a line th	nat intersects the circle at only one point . TRUE or FALSE ?	1
	, ,	· <i>,</i>	
2	The tangent at any point of a circle is perpendicular to the radius through the point of contact . TRUE or FALSE?		
	(a) TRUE	(b) FALSE	
3	At any point on a circle there can be one and only one tangent . TRUE OR FALSE?		
	(a) TRUE	(b) FALSE	
4	How many tangents can a circle have?		
	(a) 0	(b) 1	
	(c) 2	(d) INFINITE	
5	What is a line intersecting a circle in two points called?		
	(a) Tangent	(b) Radius	
	(c) Secant	(d) Diameter	
6	The length of a tangent from a point A at distance 5 cm from the centre of the circle is 4 cm. Find the radius of the circle.		
	(a) 5 cm	(b) 7 cm	
	(c) 9 cm	(d) 3 cm	
7	Two concentric circles are of radii 5 cm and 3 cm . Find the length of the chord of the larger circle which touches the smaller circle .		
	(a) 3 cm	(b) 8 cm	
	(c) 5 cm	(d) 7 cm	
8	State true or false. Tangent is perpendicular to the radius through the point of contact.		
	(a) TRUE	(b) FALSE	

9	A Som O		1
		rangents AP and AQ drawn from an external point A to a circle r to each other and length of each tangent is 5 cm. Then the	
	(a) 10 cm	(b) 7.5 cm	
	(c) 5 cm	(d) 2.5 cm	
10	From an external point P, two tangents, PA and PB are drawn to a circle with centre O. At one point E on the circle tangent is drawn which intersects PA and PB at C and D, respectively. If PA = 10 cm, what is the perimeter of the triangle PCD?		
	(a) 10 cm	(b) 20 cm	
	(c) 15 cm	(d) 25 cm	
11	State TRUE or FALSE: The tangent at any point of a circle is perpendicular to the radius through the point of contact.		
	(a) TRUE	(b) FALSE	
12	State TRUE or FALSE: There is one and only one tangent at any point on the circumference of a circle.		1
	(a) TRUE	(b) FALSE	
13	A tangent PQ at a point P of a circle of radius 5 cm meets a line through the centre O at a point Q so that OQ is 13 cm. Find the length of PQ.		
	(a) 10 cm	(b) 12 cm	
	(c) 14 cm	(d) 16 cm	

14	From a point P, 10 cm away from the centre of a circle, a tangent PT of length 8 cm is drawn. Find the radius of the circle.		
	(a) 8 cm	(b) 10 cm	
	(c) 6 cm	(d) 4 cm	
15	Q M R		1
	From the given figure, a circle is inscribed in a tage 12 cm, find the lengths of QM. (a) 2 cm (c) 8 cm	triangle PQR. If PQ is 10 cm, QR is 8 cm and PR is (b) 3 cm (d) 11 cm	
16			1

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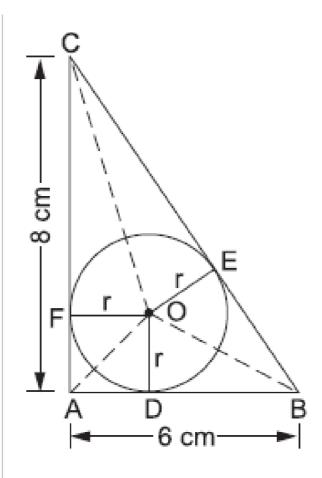
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From the given figure, ABC is a right-angled triangle with AB is 6 cm and AC is 8 cm. A circle with centre O has been inscribed inside the triangle. Calculate the value of r, the radius of the inscribed circle.

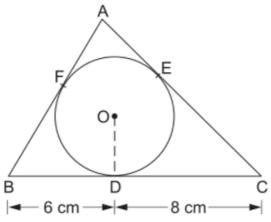
(a) 4 cm

(b) 8 cm

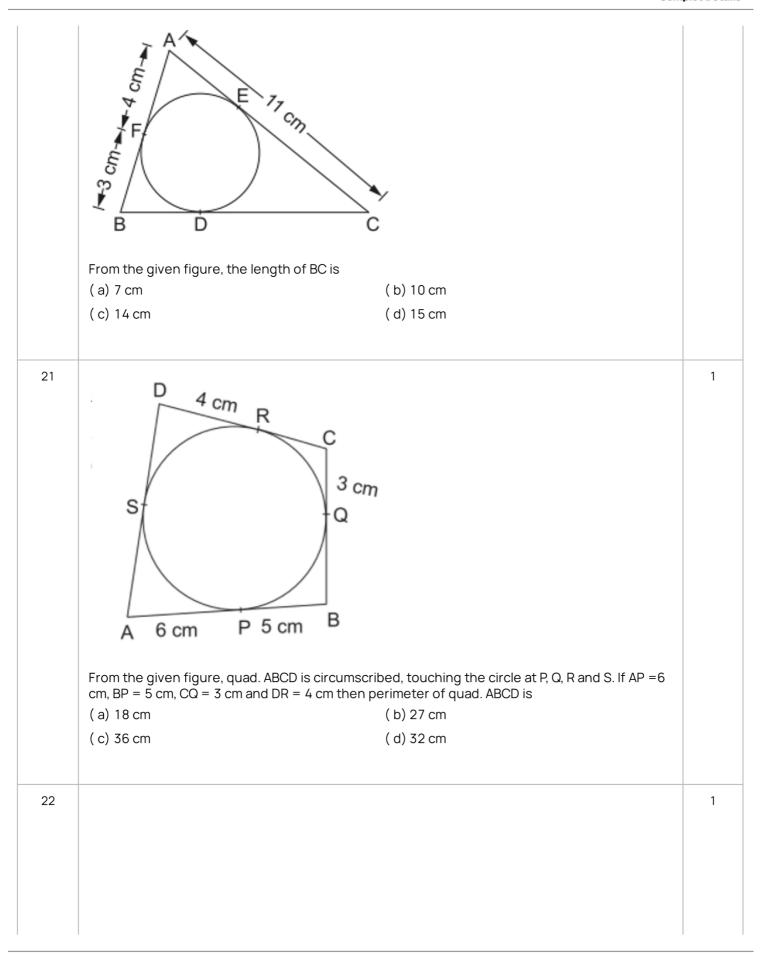
(c) 3 cm

(d) 2 cm

17 | 1



18	From the above figure, a triangle ABC is drawn to the segments BD and DC into which BC is divided and 8 cm respectively. Find the lengths of the set (a) 13 cm, 15 cm (c) 14 cm, 16 cm The chord of a circle of radius 10 cm subtends a chord (in cm) is (a) $\frac{5}{\sqrt{2}}$ (c) $10\sqrt{2}$	ed by the point of contact D are of lengths 6 cm ides AB and AC. (b) 13 cm, 14 cm (d) 13 cm, 11 cm	1
19	From the above figure, a circle is inscribed in a 2 respectively. If AB is 10 cm, AR is 7 cm and CR is (a) 2 cm (c) 8 cm		1
20			1



O B

From the given figure, O is the centre of two concentric circles of radii 5 cm and 3 cm. From an external point P tangents PA and PB are drawn to these circles. If PA = 12 cm then PB is equal to

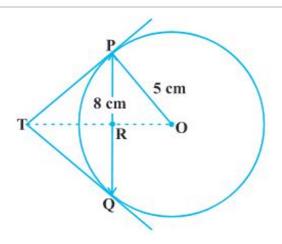
(a) $5\sqrt{2}$ cm

(b) $3\sqrt{5}$ cm

(c) $4\sqrt{1}0$ cm

(d) $5\sqrt{10}\,\mathrm{cm}$

23



PQ is a chord of length 8 cm of a circle of radius 5 cm. The tangents at P and Q intersect at a point T (see the above image). Find the length TP.

(a) $\frac{17}{3}$

(b) $\frac{22}{3}$

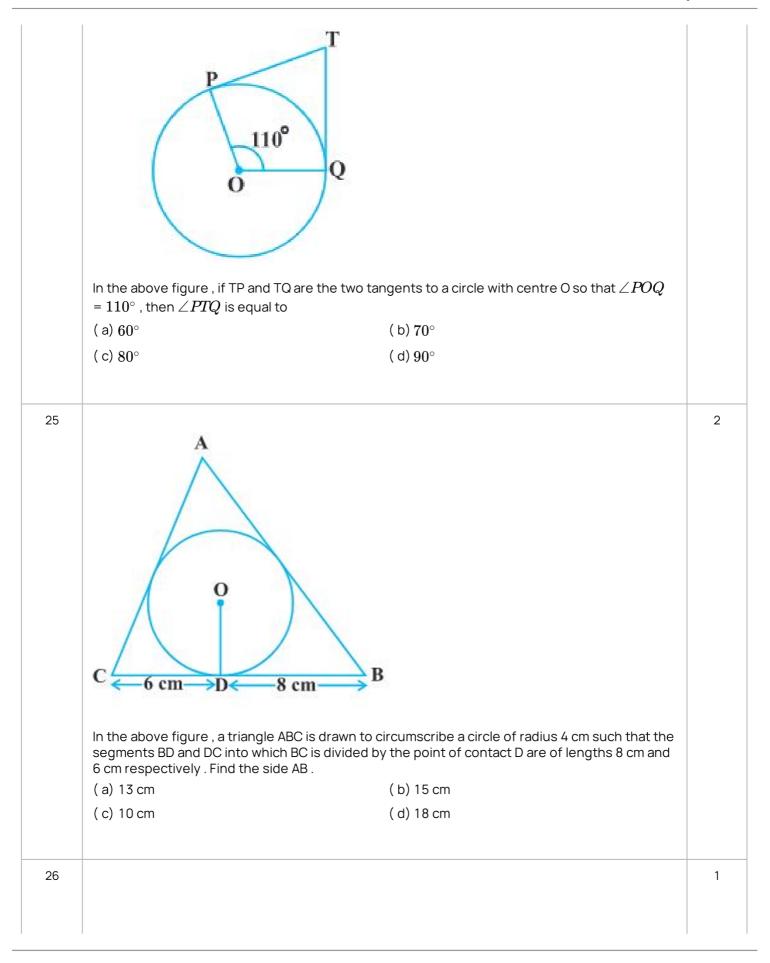
(c) $\frac{13}{3}$

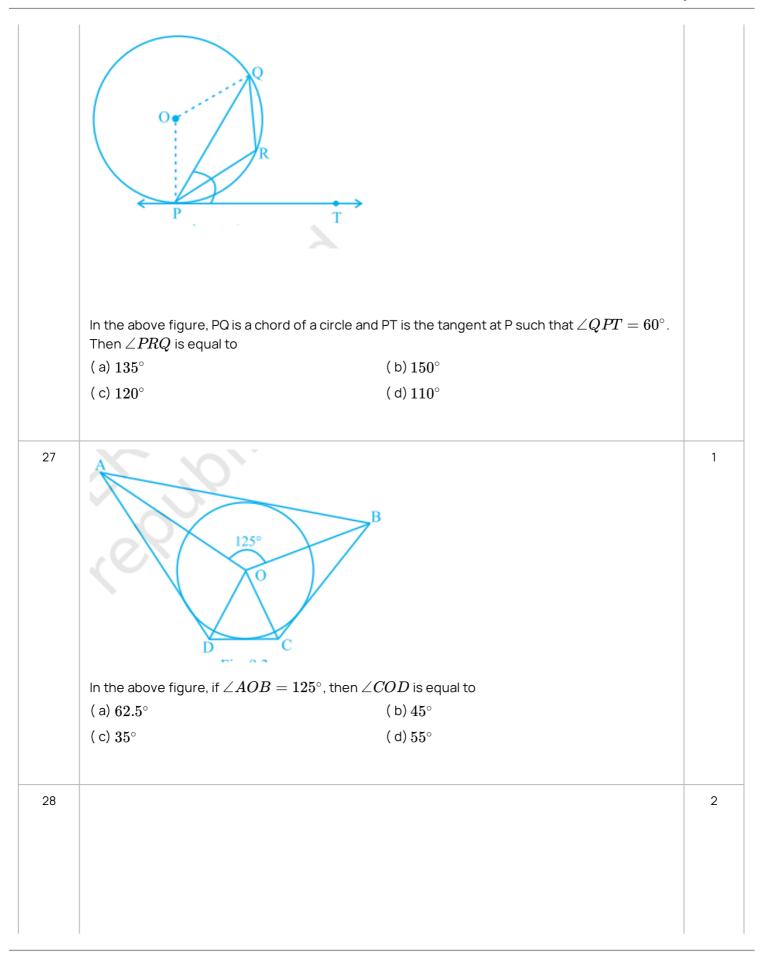
(d) $\frac{20}{3}$

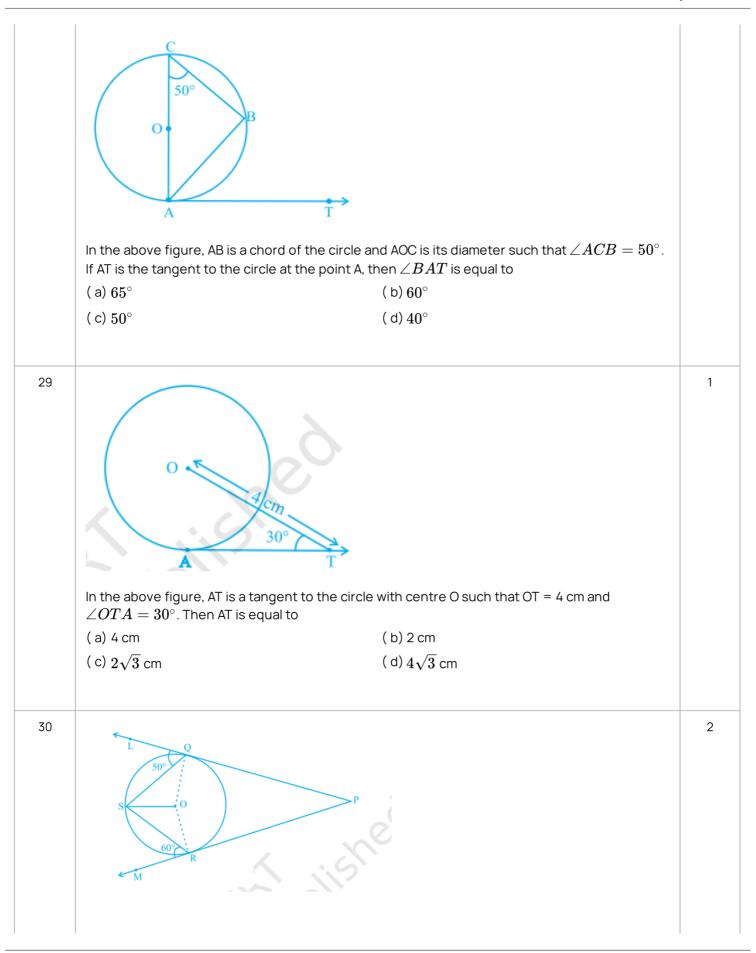
24

2

5







	with centre O at the points 0	re, Is it TRUE or FALSE that PQL and PRM are tangents to the circle Q and R, respectively and S is a point on the circle such that $=60^\circ$. Then $\angle QSR$ is equal to 40° ? (b) FALSE	
31		as PQ and PR are drawn to a circle such that $\angle RPQ=30^\circ$. A chord angent PQ. What is the value of $\angle RQS$? (b) 30° (d) 50°	2
32		gent at a point C of a circle and a diameter AB when extended 10° , what is the value of $\angle CBA$? (b) 80° (d) 75°	2





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का चयन इंटेल प्राइवेट लिमिटेड के लिए हुआ है। कंपनी इन छात्रों को सालाना 21 लाख रुपए का पैकेज दे रही है। ये दोनों छात्र सत्र 2017 में सीयू के इलेक्ट्रॉनिक्स एंड कम्युनिकेशन इंजीनियरिंग विभाग से बीटेक की उपाधि प्राप्त की। वर्तमान में ये भारतीय प्रौद्योगिकी संस्थान (आईआईटी) दिल्ली में एमटेक कर रहे हैं। इंटेल कॉरपोरेशन एक अमेरिकी बहराष्ट्रीय कंपनी है। सिलिकॉन वैली में सांता क्लारा स्थित इस कंपनी का भारत में मख्यालय बेंगलर है।

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MATHEMATICS - 10TH

IMPORTANT MCQ'S - MATHS (10TH GRADE)

CIRCLE

1	2	3	4	5	6	7	8
А	А	А	D	С	D	В	А
9	10	11	12	13	14	15	16
С	В	A	А	В	С	В	D
17	18	19	20	21	22	23	24
А	С	С	В	С	С	D	В
25	26	27	28	29	30	31	32
В	С	D	С	С	В	В	А
33	34	35	36	37	38	39	40
-	-	-	-	-	-	-	-
41	42	43	44	45	46	47	48
-	-	-	-	-	-	-	-