If a quadrilateral is a parallelogram, then			Correct?	
ch diagonal div	vides the parallelogram into	two congruent triangles	T or F	
posite angles	are congruent		T or F	
Consecutive angles are supplementary			T or F	
e diagonals ar	e congruent		T or F	
The diagonals bisect each other			T)or F	
The diagonals are perpendicular			T or (F)	
e. rd Bank:	K to III III the following state	ins. You will not use all of	the words and you may use words	
center	Circumcenter	Centroid	Vertex Vertices	
de 5	Gravity	Medians	Perpendicular Bisectors	
angle bisecto	rs of a triangle intersect at the state of t	the // Cey 9	e center of a(n) 10 SCr1k	
	ectors meet at the		T This point is equidistant MSCri bedircle. Ewtroid It is the c	
Bravity 1.	for a triangle. It divides	s the MedianS_into t	wo segments whose lengths are in	
anne the type of	center of the thangle show	on in the diagrams below.	Explain now you know.	
•	Name:	Explanation:	endersection of ge bisectors' is the same of the side	

Key p. 2
Name: Explanation: Circumcenter # 16 the center of the Circle Mat is circumscribed around the transle. Name: Explanation: Controld It is the indusection of all the medians.
Point T is the incenter of $\triangle PQR$. Find the measure of UR. Show your work or explain your reasoning. MTM = 15 b citis Mul radius $\frac{1}{2}$ $$
If AD=8, AG=10, BE=19, and AC=16, find the perimeter of the triangle. Show your work or explain your reasoning. Find the measure of SO. Show your work or explain your reasoning.
Fill in the blanks below to make the statement true. A tangent line to a circle is
A circumscribed angle is 180 degrees minus the measure of its <u>MHERCEPTED ARC</u> . 25

5)

5)

3)

3)

ɔ)

:)

(t

e)

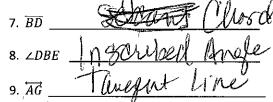
")

ş)

)	Write the formula for each:	a)	Area of a circle =	Tra	Kupp 3
		b)	Circumference of a circ	le= 2TY	·
10) a)	Complete the Ratio statements for e Ratio for finding Sector Area: Su	ter Area	whole	finding Length of an Arc:	are length
c)	Ratio for a Central Angle in Degrees	:tr* <u>8</u> 360	d) Ratio for a	a Central Angle in Radian	5: <u>6</u>
11)	a) Find the measure of angle a and a		measure of angle a and 닉c		211
	55	1-65°	360	$a = 98^{\circ}$	
	210° (355 b) 360 - 210	p = 40 ² 76°	120	b= 120° 20+76=196°	<u>+</u> 2
12)	When assembling a chair like that sh	own here, the legs of			
•	(E is the midpoint of \overline{AC} and \overline{DB} .)	own here, and legs of	and chan, DD and May, c	are connected at their fill	чропиз.
1.	Prove that $\triangle ABE \cong \triangle CDE$.	1. Given		Non-marking management of the second	
	= 15 the midpoint of AC &)B			
	4E = MEC	2. Definition of Mid	point		
	DE=MEB				
	TO FA	3. Del of Co	ngruence		
3;	TE = CC			6	
	DE_≅_EB				
4. ∠_	AEB= LCED	4. Vertica	largles		
5	ABE = ACDE	5. SAS	>		
L3)	a) Find the radius.		b) \overline{PA} and \overline{PB} are	1	
811	10m	$\frac{8\pi}{9}$	tangents to circle O Find the measure of	f \/ o ·	1
9	= = ATT		the intercepted arc indicated by x.	ALL	V 3
, A.T 9	·		190 - 4°	0=1400 1400	
.3	$\frac{5}{9} = \frac{5}{17} = \frac{8}{9} = \frac{5}{17} = \frac{5}{17}$	8 T = 5 K	AND ADDRESS AND ADDRESS OF THE PARTY OF THE	40°	
	r*	· · · · · · · · · · · · · · · · · · ·	r	Px	- 1400
	$c) \overline{ED}$ and tangent to	o circle C. Find	7 220	d) $m \angle RST = 9$ mSTU = 22	, ,
	the value	of x.	Lito Po		85
	$a^{2} + 10^{2} = c$			1 500	90 364
	$5^{2} + x^{3} = 8^{3}$, J	95.	$ \begin{array}{ccc} mTUR &= & 1 \\ 70 & & & \\ 190 & & & \\ 1110 & & & \\ \end{array} $	170
	25 + X = 20	7 X=J39 &	6.25	" M< UTS_	- 43
	7 - 3	2 4 9 X=√39 ≈			85

14)	Use the word bank to name the term that best describes the notation below.
	1. AB MINOS ONC
	2. LAIE ON CHWSCribid Aug
	3. LACE Outral Angle
	4. HGRUMIUS
	5. BE DANNAN
	ΛΛ

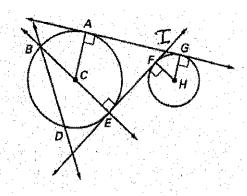
6. BDA



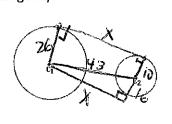
15) Triangle ABC is circumscribed about the circle. Find the perimeter of triangle ABC if a = 8 cm, b = 9 cm, and c = 18 cm.



Radius	Central Angle	Major Arc
Minor Arc	Tangent Line	Diameter
Inscribed Angle 🗸	Circumscribed Angle	Chord



 $l_{\mathcal{O}}$)
The radius of Circle $C_1 = 26$ in and the radius of circle $C_2 = 10$ in. The distance between the centers of the two circles is 43 in. What is the horizontal length between the two points of tangency?



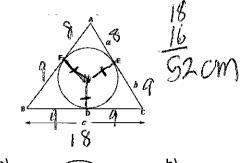
$$a^{2}+b^{2}=c^{3}$$
 $16^{3}+b^{3}=43^{3}$
 $256+b^{2}=1849$

$$b^{2}=1593$$

$$b^{2}=39.9 \text{ My}$$

The radar beam sent out by an aeroplane reaches a distance of 120

120 km



b) 7) a)



18.32cm

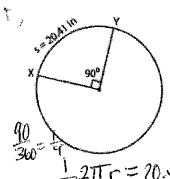
Area = 25TCm2

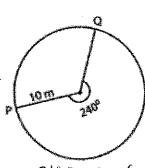
kilometres and covers an angle of 150°. 210° 271 = 18.32

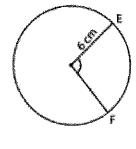
3.665191=1832

A=TTr2= TT(s)2=25TCm

- a) Find the radius
- Find the length of the major arc. b)
- Calculate the area covered by the beam.
 - c) Find the central angle in radians.







s = 10.47 cm

1.745 = A