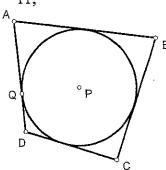
Name		
Date	Period	

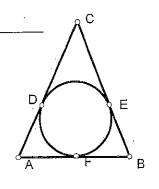
1. Circle P is tangent to each side of ABCD. AB = 20. BC = 11,

and DC = 14. Let AQ = x and find AD.



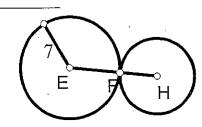
2. AF = FB = 4, DC = 6.

Perimeter of $\triangle ABC =$



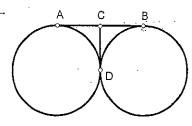
3. Given ⊙E and ⊙H

EH = 12, FH = ___



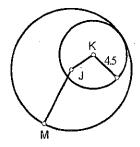
4. AB = 10,

CD =



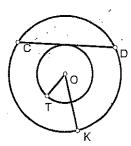
5. Given ⊙K and ⊙J

 $JM = 7.1, JK = ____$



6. OT=9, OK=15,

CD=



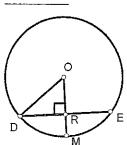
7. A chord of a circle is 10 inches long and is 12 inches from the center of the circle. Find the length

of the radius. Radius =

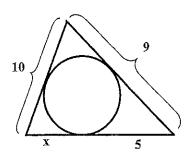
8. The diameter of a circle is 20 cm. long and a chord is 16 cm. long. Find the distance between the chord and the center of the circle.

Distance =

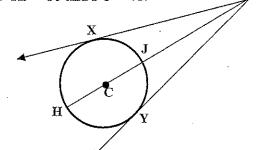
9. If OD = 10, DE = 16, RM = ____



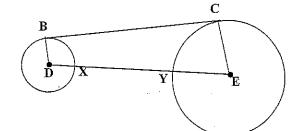
10. x=



- 11. \overline{PX} and \overline{PY} are tangent to \bigcirc C from an external point P. HJ = 18 and PC = 41.
- (a) PX =____
- (b) PY.=
- (c) What is the distance from C to X?
- (d) What is the distance from C to Y?

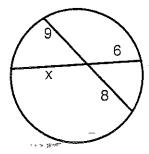


- 12. \overline{BC} is a common external tangent of $\odot D$ and $\odot E$.
- BD = 3, CE = 15, and DE = 30.
- (a) XY =
- (b) BC. =

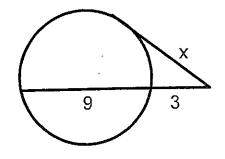


13. The minor arc cut off by two tangents to a circle 14. x =from an outside point is five-sevenths of the major arc. Find the angle formed by the tangents.

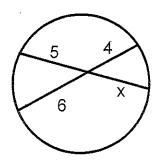
angle = _____



15. x =

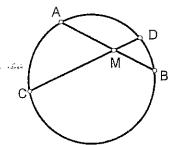


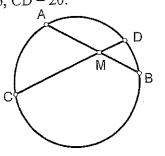
16. x =



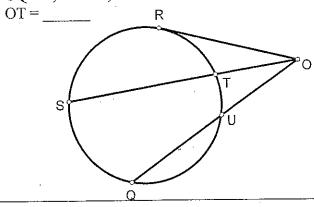


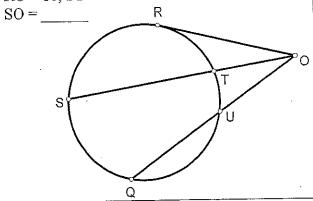
AM = ____





19.
$$OQ = 6$$
, $OU = 4$, $ST = 5$.





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