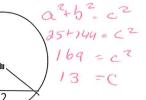
10-1 Circles, Circumference, Area

Find the circumference AND area of the circle. Give answers as exact AND rounded to hundredths.

- 1. r=8cm 2. r=10in C=50.24cm A=200.96cm C=62.8in A=.314 in

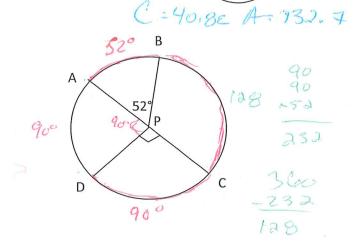


Find the radius and diameter

- 4. C = 8.7 in
- 8.7 = 71.d

10-2 Angles and Arcs Circle correct answer 2:77 = d

- 1. Arc DAC is a major minor semicircle arc.
- 2. Arc BC is a major minor semicircle arc.
- 3. Arc ADC is a major minor semicircle arc.



Fill in correct answer

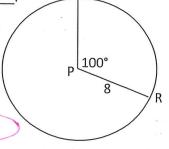
- 4. Name the central angle to arc AB \angle AP \otimes
- 5. Name the radii shown AP . TO CB
- 6. Name the diameter shown

Find the following arc measures

- 7. *m* arc AB 53
- 8. $m \operatorname{arc} BC$ 12%
- 9. m arc DB 142
- 10. *m* arc DAC
- 11. *m* arc CD 12. *m* arc ADC
- 13. *m* arc DCB 14. *m* arc BDA
- 15. The measure of a minor arc is equal to the measure of its ______ angle.
- 16. The measure of a major arc is greater than $\frac{180^{\circ}}{}$ and less than $\frac{3600^{\circ}}{}$
- 17. a. Find the *length* of Arc QR in circle P.

360 = 27(8)

5,034-2



Q

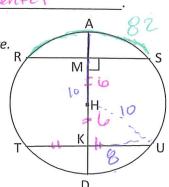
b. Find the <u>area of the sector</u> enclosed by Angle QPR. $\frac{100}{360} = \frac{1}{50.34}$ $A = \pi \cdot r^2 = \pi \cdot 8^2 = 200.96$ $\frac{100}{360} = \frac{1}{50.34}$ 10-3 Arcs and Chords

- If a radius is _____ to a chord, then it _____ the chord and its arc.
 Two chords are _____ if they are equidistant from the _____ center

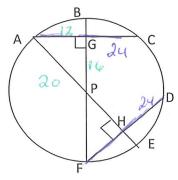
Circle H's radius=10, m arcRS = 82, and $\overline{M}H \cong \overline{HK} = 6$. Find each measure.

- 1. TU 16
- 2. TK 🖔
- 3. MS 8
- 4. *m* arc AR 41

- 5. *m* arc TD 41
- 6. m arc DU 41
- 7. *m* arc AS
- 8. *m*∠HKU 90°



Circle P has a diameter of 40 cm and AC = FD = 24. Find each measure.



7. A radius of a circle is 18 inches long and a chord is 8 inches long. What is the distance from the center of the circle to the chord? Draw a picture in the circle provided.

$$a^{2} + b^{2} = c^{3}$$
 $16 + b^{2} = 324$
 $5^{2} = 308$
 $6 = 17.5$

Find the measure of each arc of a circle circumscribed about a polygon.

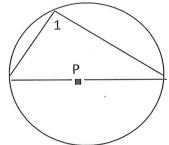
8. An equilateral triangle

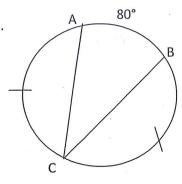
9. A regular pentagon

10-4 Inscribed Angles

An inscribed angle measure is ______ of the measure of its intercepted arc.

- 3. m arc BC___140°





If a quadrilateral is inscribed in a circle, then its opposite angles are



Quadrilateral RSTU is inscribed in circle P. m arcSTU = 220 and $m \angle S = 95$.

Find each measure.

- 1. $m \angle R = \frac{4}{5} \cdot 200 = 110$ 4. $m \angle T = 180 110 = 70$ 2. $m \angle U = 180 95 = 85$ 5. $m \operatorname{arc} SRU = 70 \cdot 2 = 140$ 3. $m \operatorname{arc} RUT = 95 \cdot 2 = 190$ 6. $m \operatorname{arc} RST = 2 \cdot 170$

