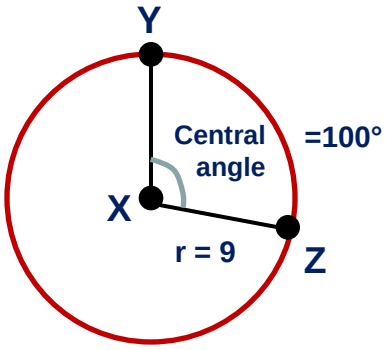
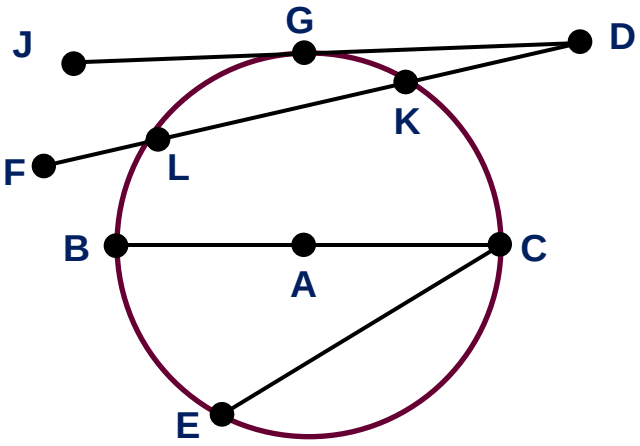
Circle Items Worksheet

Name: _____

Item	Definition	In Picture
center	*Point* at the center and is the name of the circle	A
radius	Starts at center ends at circle edge	AB
chord	Endpoints are on the edge of the circle	CE
diameter	A chord that goes through the circle center It is the longest chord in the circle	CB
secant	A segment that starts outside the circle and crosses the circle in two places	DF
tangent	A segment that starts outside the circle and touches the circle at one place	JD
arc	Part of the edge of the circle	GCE
Major arc	More than half way around the circle	BCE
Minor arc	Less than half way around the circle	BLG
Semi-circle	Half way around the circle	BEC





Remember Circle's formulas from middle school and on formula sheet:

Circumference (perimeter): $C = 2\pi r = d\pi$

$C = 2\pi r = 2\pi(9) = 18\pi = 56.55$ units

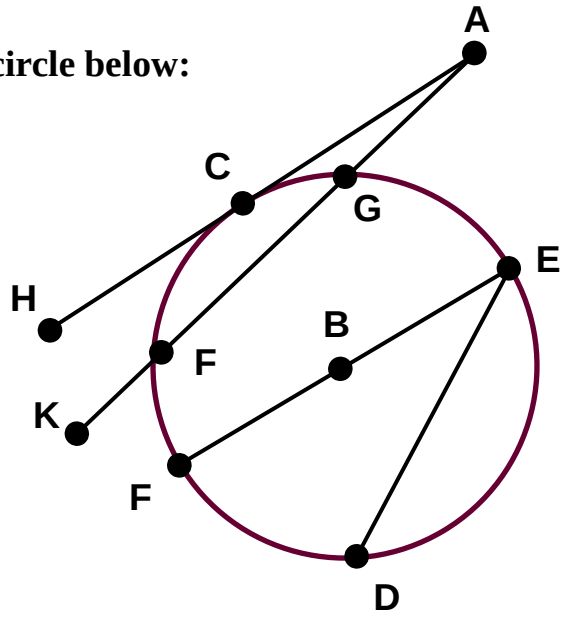
Area: $A = \pi r^2$

$A = \pi r^2 = \pi(9)^2 = 81\pi = 254.47$ sq units

Angles: Once around any circle (sum of the central angles) is 360° and a diameter divides the circle into two 180 halves

Circle Items Worksheet

1. **Identify the following pieces drawn in the circle below:**



   A. **Arc:** _____
   B. **Chord:** _____
   C. **Circle Name:** _____
   D. **Diameter:** _____
   E. **Radius:** _____
   F. **Secant:** _____
   G. **Tangent:** _____
   H. **Major Arc:** _____
   I. **Minor Arc:** _____
   J. **Semi-Circle:** _____

2. **If the radius is 6,**
   A. **Find the area:** _____
   B. **Find the circumference:** _____
   C. **Find the diameter:** _____

3. **If the diameter is 16,**
   A. **Find the area:** _____
   B. **Find the circumference:** _____
   C. **Find the radius:** _____

4. **If DF is the diameter in circle A, solve for x and y.**