## **Angles and Arcs of Circles Worksheet:**

1) In circle O, radii OA and OB are drawn. Central angle AOB measures 68. The measure of arc AB is a) 34 b) 68 c) 112 d) 136

2) In circle O, radii OA and OB are drawn. If arc AB measures 122, the measure of <AOB is

a) 58 b) 61 c0 122 d) 244

For problems 3 & 4, in circle O below, radii OA and Ob and chords AC and BC are drawn.

3) If the measure	of arc AB is 86	, the measure o	of <acb equals<="" th=""><th></th></acb>				
a) 43	b) 62	c) 86	d) 172				
4) If the measure	of arc $AB = 86$ ,	the measure o	f <aob is<="" td=""><td></td></aob>				
a) 43	b) 62	c) 86	d) 172				
5) If a central ang measurement of th a) 1:1	le and an inscri ne central angle b) 2:1	bed angle inter to the measure c) 1:2	cept the same arc, e of the inscribed a d) 2:2	the ratio of the ingle is			
<ul> <li>6) Triangle XYS is inscribed in circle O. If the measure of <xyz 144,="" 67="" <zxy?<="" and="" arc="" following="" is="" li="" measure="" of="" the="" which="" xy=""> <li>a) 82</li> <li>b) 162</li> <li>c) 108</li> <li>d) 41</li> </xyz></li></ul>							

7) In the diagram of circle O below, diameters AOB and COD are drawn as well as chords AC, BC, and DB. The measure of <ACD is 32 and the measure of arc AC is 116.

<u>Find:</u>					
a) arc AD	b) arc BD	c) arc BC	d) <aoc< td=""><td>e) <abd< td=""><td>f) <cdb< td=""></cdb<></td></abd<></td></aoc<>	e) <abd< td=""><td>f) <cdb< td=""></cdb<></td></abd<>	f) <cdb< td=""></cdb<>
g) <bod< td=""><td>h) <acb< td=""><td></td><td></td><td></td><td></td></acb<></td></bod<>	h) <acb< td=""><td></td><td></td><td></td><td></td></acb<>				