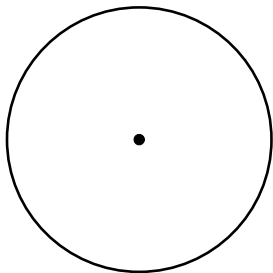


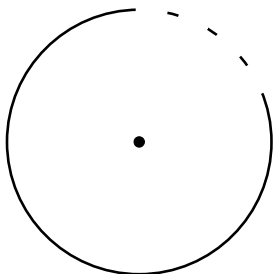
NAME: \_\_\_\_\_

1. Identify the **solid dot** in the circle.



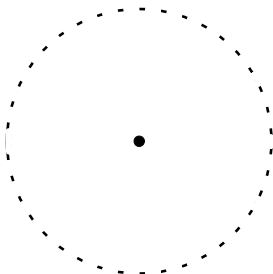
- [A] center point      [B] circumference  
[C] arc      [D] radius

2. Identify the **dotted part** of the circle.



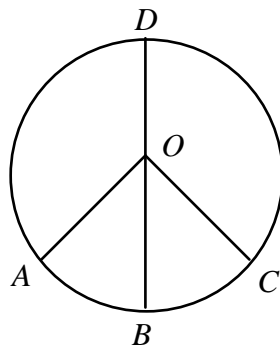
- [A] arc      [B] circumference  
[C] chord      [D] radius

3. Identify the **dotted part** of the circle.



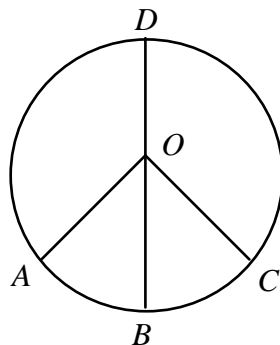
- [A] center point      [B] circumference  
[C] diameter      [D] chord

4. In circle  $O$  below,  $\overline{BO}$  is \_\_\_\_\_.



- [A] a diameter      [B] a central angle  
[C] an arc      [D] a radius

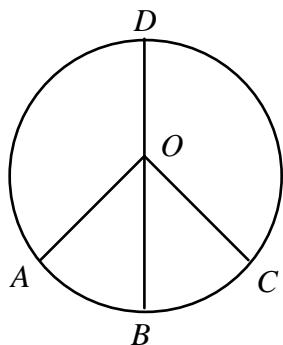
5. In circle  $O$  below,  $\overline{DB}$  is \_\_\_\_\_.



- [A] an arc      [B] a diameter  
[C] a central angle      [D] a radius

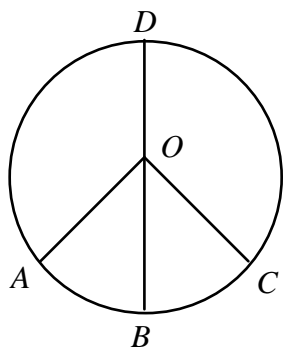
NAME: \_\_\_\_\_

6. In circle  $O$  below,  $\angle AOB$  is \_\_\_\_\_.



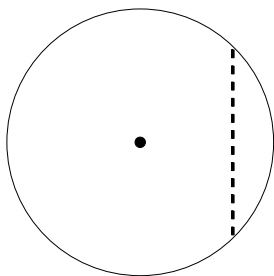
- [A] an arc                      [B] a diameter  
[C] a radius                  [D] a central angle

7. In circle  $O$  below,  $\widehat{AB}$  is \_\_\_\_\_.

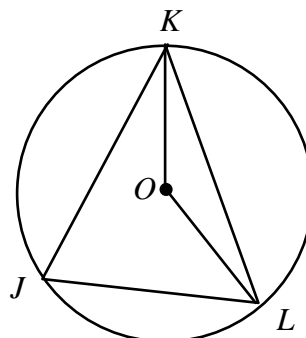


- [A] a radius                      [B] a central angle  
[C] a diameter                  [D] an arc

8. Name the **dotted line**.



9. Name 3 chords, 2 radii, and 1 central angle for the circle below.



10. If the diameter of a circle is 18 cm, the radius of the circle is greater than that of a circle with a radius of

- [A] 17 cm.                      [B] 10 cm.  
[C] 12 cm.                      [D] 3 cm.

11. Find the coordinates of the center and the radius of the circle with diameter  $\overline{CD}$ .  
 $C(-6, 2)$ ,  $D(8, 6)$

- [A]  $(1, 4)$ ,  $\sqrt{55}$               [B]  $(-7, -2)$ ,  $\sqrt{15}$   
[C]  $(-7, -2)$ ,  $\sqrt{17}$               [D]  $(1, 4)$ ,  $\sqrt{53}$

12. Find the center of a circle if one chord has endpoints  $(7, -12)$  and  $(11, -6)$  and another has endpoints  $(19, -20)$  and  $(19, -6)$ .

13. A search and rescue team is searching for a child last seen at a grocery store at 2 P.M. It is estimated that she can walk 2 mi/h. It is now 4:30 P.M. Draw a picture of the search area on coordinate axes and find the area they need to search.

- [1] A
- [2] A
- [3] B
- [4] D
- [5] B
- [6] D
- [7] D
- [8] chord
- [9]  $\overline{JK}$ ,  $\overline{KL}$ , and  $\overline{JL}$ ;  $\overline{KO}$  and  $\overline{OL}$ ;  $\angle KOL$
- [10] D
- [11] D
- [12] (15, -13)
- [13] The search area will be a circle with center (0, 0) and radius 5; the area is  $25\pi$  or about 78.5 mi<sup>2</sup>.