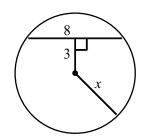
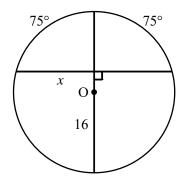
NAME:\_\_\_\_

1. Find the value of *x* to the nearest tenth.



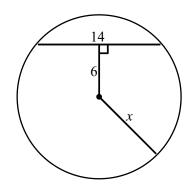
[A] 3.7 [B] 8.5 [C] 5.0 [D] 7.4

3. Find the value of *x* to the nearest tenth.



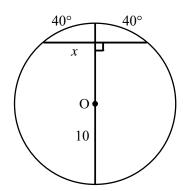
[A] 9.7 [B] 15.5 [C] 59.7 [D] 4.1

2. Find the value of *x* to the nearest tenth.



[A] 7.9 [B] 12.6 [C] 9.2 [D] 15.2

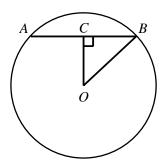
4. Find the value of *x* to the nearest tenth.



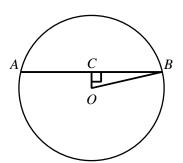
[A] 3.4 [B] 8.4 [C] 7.7 [D] 6.4

NAME:

5. Given  $\Theta O$  with radius 5 and OC = 3. Find the length of  $\overline{AB}$ .



6. Given  $\Theta O$  with radius 41 and OC = 9. Find the length of  $\overline{AB}$ .



7. A footbridge is in the shape of an arc of a circle. The bridge is 7 ft tall and 23 ft wide. What is the radius of the circle that contains the bridge? Round your answer to the nearest

[A] 25.9 ft

tenth.

[B] 12.9 ft

[C] 18.9 ft

[D] 5.9 ft

8. A footbridge is in the shape of an arc of a circle. The bridge is 10 ft tall and 21 ft wide. What is the radius of the circle that contains the bridge? Round your answer to the nearest tenth.

[A] 10.5 ft

[B] 0.5 ft

[C] 21.0 ft

[D] 11.0 ft

9. Assume the Earth is a sphere with radius 4000 miles. A tunnel 200 miles long connects two points *A* and *B* on the Earth's surface. A ventilation shaft is constructed to the surface at the center of the tunnel. How long is the shaft?

10. A plane intersects a sphere 20 in. from its center, forming circle *M* with radius 21 in. What is the radius of the sphere?

[1]	<u>C</u>
[2]	<u>C</u>
[3]	<u>B</u>
[4]	<u>D</u>
[5]	8
[6]	80
[7]	<u>B</u>
[8]	<u>A</u>
[9]	about 1.25 mi

[10] <u>29 in.</u>