$\qquad$

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

[A] 3.7
[B] 8.5
[C] 5.0
[D] 7.4
2. Find the value of $x$ to the nearest tenth.

[A] 9.7
[B] 15.5
[C] 59.7
[D] 4.1
3. 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
5. Given $\odot O$ with radius 5 and $O C=3$. Find the length of $\overline{A B}$.

6. 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 tenth.
[A] 25.9 ft
[B] 12.9 ft
[C] 18.9 ft
[D] 5.9 ft
7. 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
8. 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?
9. 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] C
[2] C
[3] B
[4] D
[5] 8
[6] 80
[7] B
[8] A
[9] about 1.25 mi
[10] $29 \mathrm{in}$.
