

Standard: Arc Length and Area of Sector

*******YOU MUST SHOW WHAT FORMULA YOU USE AND HOW YOU SET IT UP*******

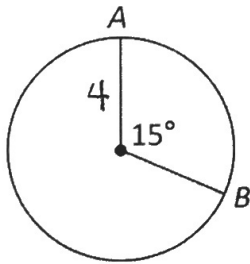
1. Find the circumference of a circle with a radius of 24 inches

2. Find the circumference of a circle with a radius of 18 inches

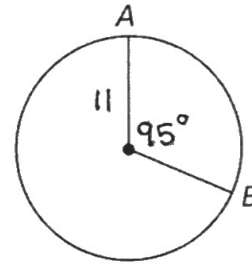
3. Find the radius of a circle with a circumference of 12 yards.

4. Find the radius of a circle with a circumference of 20 yards.

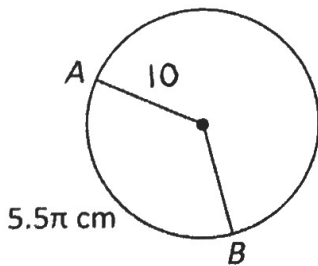
5. Find the length of \widehat{AB}



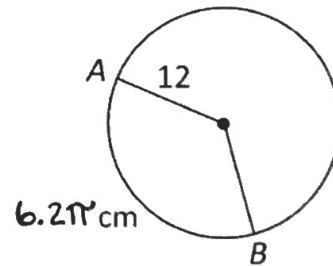
6. Find the length of \widehat{AB}



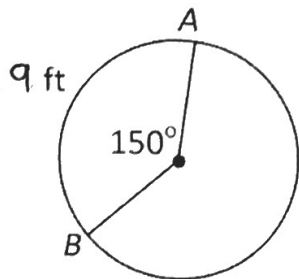
7. Find the degrees of \widehat{AB}



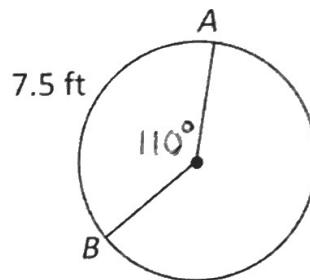
8. Find the degrees of \widehat{AB}



9. Find the radius of the circle.



10. Find the radius of the circle



11. A clock has its hands at 4 o'clock. If the arc length formed by the hands is 12.56 cm, what is the value for the length of the radius of the clock?

12. A clock has its hands at 2 o'clock. If the arc length formed by the hands is 15.68 cm, what is the value for the length of the radius of the clock?

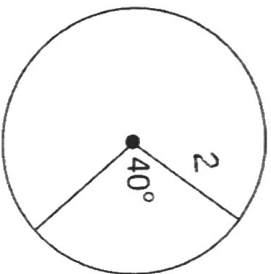
13. Find the area of a circle with a diameter of 8.4 cm

14. Find the area of a circle with a diameter of 6.2 cm

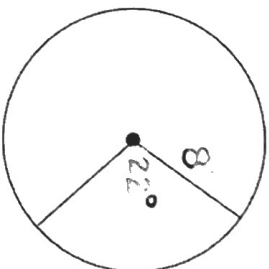
15. Find the diameter of a circle with area equal to 654 m^2

16. Find the diameter of a circle with area equal to 726 m^2

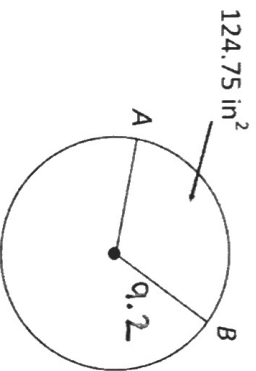
17. Find the area of the shaded sector



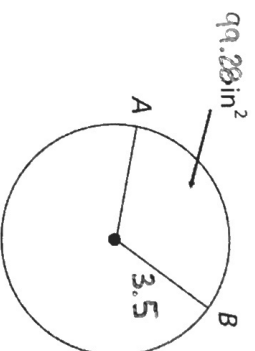
18. Find the area of the shaded sector



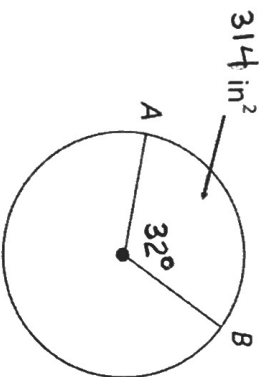
19. Find the degrees of \widehat{AB}



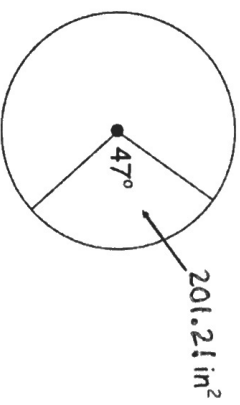
20. Find the degrees of \widehat{AB}



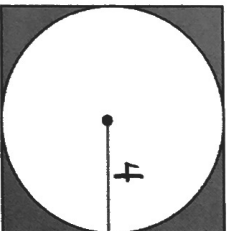
21. Find the radius of the circle



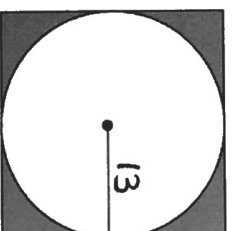
22. Find the radius of the circle



23. Find the area of the shaded region

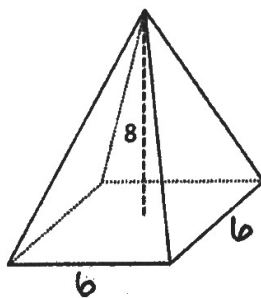


24. Find the area of the shaded region



Standard: Volume

25. Find the volume of a sphere that has a diameter of 24 ft.
26. Find the volume of a sphere that has a diameter of 30 ft.
27. Find the volume of a basketball if its radius is 4.98 in.
28. Find the volume of a basketball if its radius is 3.45 in
29. A sphere has radius of 10 feet. If the length of the radius of this sphere is tripled, then what is the volume of this new sphere?
30. A sphere has radius of 5 feet. If the length of the radius of this sphere is tripled, then what is the volume of this new sphere?
31. Find the volume of pyramid.



32. The base of a pyramid is a square with side lengths of 15 ft. If the height of the pyramid is 12 ft, then find its volume.

33. The base of a pyramid is a square with side lengths of 5 ft. If the height of the pyramid is 15 ft, then find its volume.

34. Find the volume of a cylinder with a height of 6 meters and a base with area 110π .

35. Find the volume of a cylinder with a height of 8 meters and a base with area 96π .

36. The base of a cone has a radius of 18 ft and a height of 22 ft. Find its volume.

37. Find the volume of the cone below.

