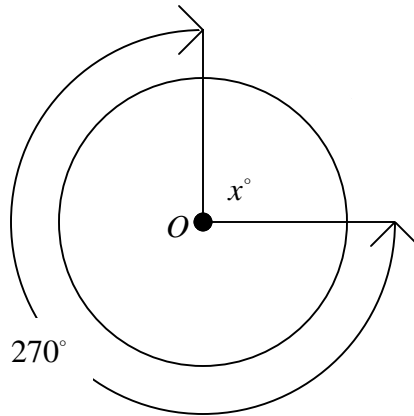
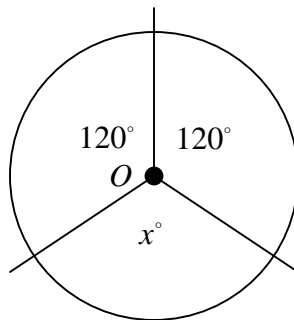


Circles and Solid Geometry



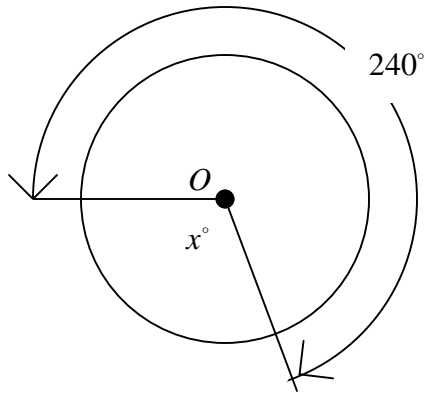
O is the center of the circle.

1. In the figure above, $x =$
 (A) 30 (B) 60 (C) 90 (D) 120 (E) 270



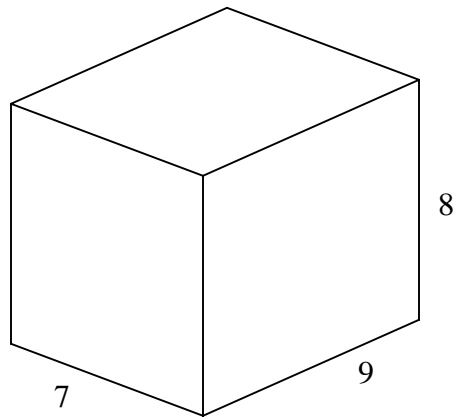
O is the center of the circle.

2. In the figure above, $x =$
 (A) 45 (B) 60 (C) 90 (D) 120 (E) 150

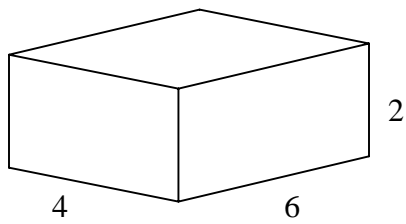


O is the center of the circle.

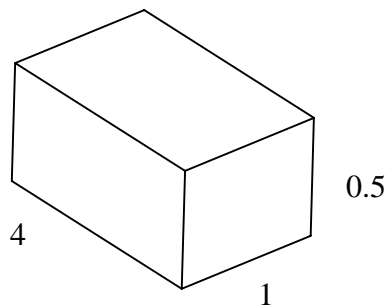
3. In the figure above, $x =$
 (A) 60 (B) 90 (C) 120 (D) 150 (E) 180
4. If the radius of a circle is 2, then the diameter is
 (A) 1 (B) 2 (C) 3 (D) 4 (E) 8
5. If the diameter of a circle is 10, what is the radius?
 (A) 2 (B) 5 (C) 8 (D) 15 (E) 20
6. If the radius of a circle is 3, what is the circumference?
 (A) 2π (B) 3π (C) 6π (D) 9π (E) 12π
7. If the radius of a circle is 5, what is the circumference?
 (A) 5π (B) 10π (C) 15π (D) 20π (E) 24π
8. If the diameter of a circle is 8, what is the circumference?
 (A) 8π (B) 6π (C) 4π (D) 2π (E) π
9. If the radius of a circle is 3, what is the area?
 (A) π (B) 3π (C) 6π (D) 9π (E) 12π
10. If the radius of a circle is 5, what is the area?
 (A) 25π (B) 21π (C) 18π (D) 2π (E) π
11. If the diameter of a circle is 8, what is the area?
 (A) 16π (B) 12π (C) 10π (D) 8π (E) 4π
12. If the diameter of a circle is 12, what is the area?
 (A) 18π (B) 24π (C) 30π (D) 32π (E) 36π
13. What is the area of a semicircle if the diameter is 12?
 (A) 18π (B) 36π (C) 48π (D) 52π (E) 68π



14. What is the volume of the figure above?
(A) 24 (B) 194 (C) 328 (D) 504 (E) 1584

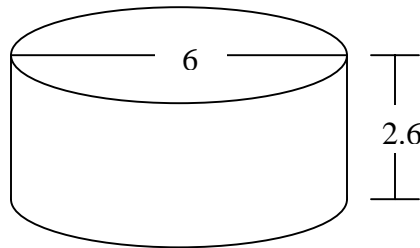


15. What is the volume of the figure above?
(A) 12 (B) 36 (C) 48 (D) 144 (E) 185

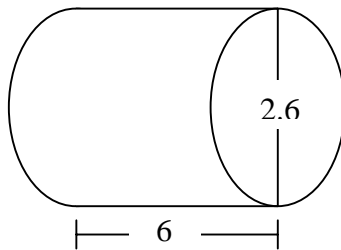


16. What is the volume of the figure above?
(A) 2 (B) 5.5 (C) 8 (D) 14 (E) 23

17. What is the volume of a box with length 9, width 8, and height 5?
 (A) 22 (B) 55 (C) 80 (D) 180 (E) 360
18. What is the volume of a box with length 3, width 4, and height 10?
 (A) 17 (B) 120 (C) 176 (D) 352 (E) 423
19. What is the volume of a cube with edge 5?
 (A) 25 (B) 75 (C) 125 (D) 140 (E) 250
20. What is the volume of a bookcase with length 0.4 meters, width 0.5 meters, and height 1 meter?
 (A) 0.2 (B) 1.9 (C) 19 (D) 24 (E) 53
21. If a cube has a volume of 64 cubic inches, what is the length of its edges?
 (A) 0.4 (B) 4 (C) 8 (D) 12 (E) 23



22. What is the volume of the figure above?
 (A) 15.6π (B) 23.4π (C) 46.8π (D) 93.6π (E) 117π



23. What is the volume of the figure above?
 (A) 10.14π (B) 20.28π (C) 30.42π (D) 40.56π (E) 50.7π