

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

1. Find the circumference of a circle whose radius is 7 centimeters. (Use  $\pi \approx 3.14$ )

[A] 43.96 cm                      [B] 0.897 cm  
[C] 21.98 cm                      [D] 0.449 cm

2. If a circle has a radius of 6 inches, what is the circumference rounded to the nearest whole number? (Use  $\pi = 3.14$ .)

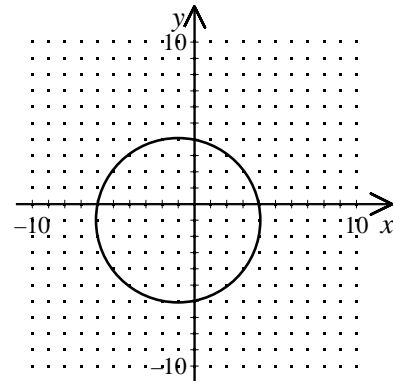
[A] 19 in.                          [B] 38 in.  
[C] 113 in.                        [D] 76 in.

3. The diameter of a circle is 20 centimeters. Find the circumference of the circle.

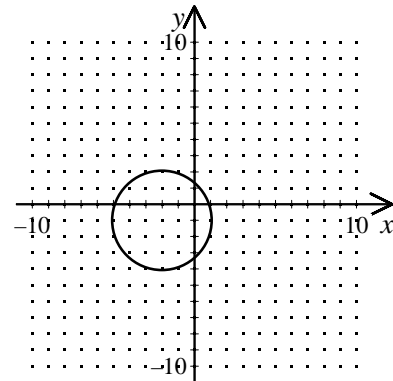
4. The radius of a circle is 8 feet. Find the circumference of the circle.

5. The circumference of a circle is  $10\pi$  feet. What is the diameter of the circle?

6. Find the circumference of the circle.



7. Find the circumference of the circle.



[A] 18.8    [B] 28.3    [C] 9.4    [D] 12.0

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8. Find the circumference to the nearest tenth of a circle with the points  $(4, 6)$  and  $(-2, 9)$  as the endpoints of a diameter.
- [A] 25.32                      [B] 21.1  
[C] 15.825                    [D] 27.43
9. Find the circumference of a circle to the nearest tenth with the points  $(-10, -10)$  and  $(-3, 8)$  as the endpoints of a diameter.
10. Three tennis balls are packaged in a pressurized can, one on top of the other. Is the height of the can or its circumference greater? Justify your answer.
11. A bicycle mechanic wants to put a strip of plastic between the tube and tire of a 26-in. diameter bicycle tire. To the nearest inch, how long should the strip of plastic be?
12. A weather satellite in circular orbit around Earth completes one orbit every 4 hours. The radius of Earth is about 6400 km and the satellite is positioned 3200 km above the Earth. How far does the satellite travel in 1 hour? Round your answer to the nearest kilometer.
13. The diameter of a basketball rim is 18 inches. A standard basketball has a circumference 30 inches. About how much room is there between the ball and the rim in a shot in which the ball goes in exactly in the center of the rim?
- [A] 4.2 in.      [B] 9.55 in.      [C] 4.78 in.  
[D] 8.45 in.      [E] none of the above

[1] A

[2] B

[3] 62.8 centimeters

[4] 50.24 feet

[5] 10 feet

[6] 31.4

[7] A

[8] B

[9] 60.7

[10] The circumference; the height is  $3d$ , where  $d$  is the diameter of the tennis ball, but the circumference is approximately  $3.14d$ .

[11] 82 in.

[12] 15,080 km

[13] A