

## 4.2 Circumference of a Circle Assignment

Instructions: Use  $\pi = 3.14$ , when necessary round all decimals to the nearest hundredth.

1. There is a round garden with a diameter of 27m. Around it there is a 3m wide path. What is the circumference of the outer edge of the path?
2. A ring has a radius of 0.5cm. What is the circumference of the ring?
3. A tabletop has a circumference of 4.3 m, what is the diameter of the table? What is the radius? Round your answer to 2 decimal places.
4. A round flower bed has a circumference of 18.84m, what is the diameter of the flower bed? What is the radius?
5. A round pool has a circumference of 94.2 m, what is the diameter? What is the radius of the pool?
6. A fountain in a mall has a circumference of 47.1 m. What is the radius of the fountain? What is the diameter?

7. You have a bike with tires that have a radius of 40 cm. How far will the bike travel if you make 450 rotations?
8. A tire has a diameter of 0.8m. How many rotations does it have to make to travel 1km?
9. A skateboard wheel has a radius of 10 cm, how far would you travel if the wheels have rotated 600 times?
10. What is the perimeter of a semicircle with a radius of 3.2m?
11. What is the perimeter of a semicircle, if the diameter is 2m?
12. What is the perimeter of a quarter of a circle with a diameter of 16cm?

13. A running track has a straight stretch that measures 200m at the ends there are semicircles with a radius of 16m. What is the distance of the running track?



14. Which have a greater circumference, the larger circle or the sum of the four smaller ones?

