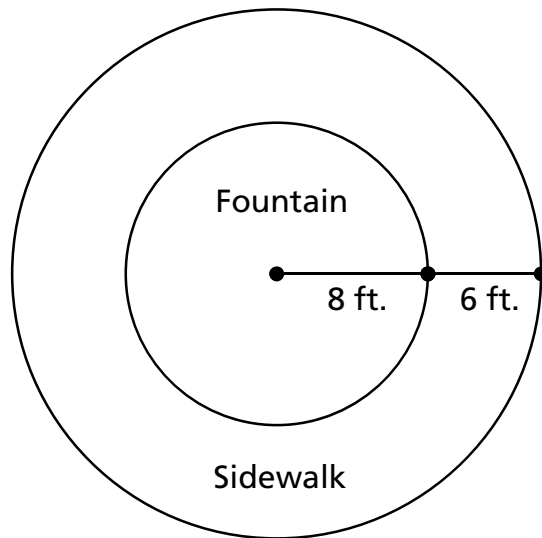


Use the diagram below to answer question 1.



1. Sienna is designing a circular fountain for a park. The radius of the fountain will be 8 feet. A concrete sidewalk with a uniform width of 6 feet will surround the fountain. The depth of the sidewalk will be  $\frac{1}{3}$  foot. To the nearest cubic foot, how much concrete needs to be poured to construct the sidewalk? (Use 3.14 for  $\pi$ .)
- A. 138
  - B. 205
  - C. 414
  - D. 553