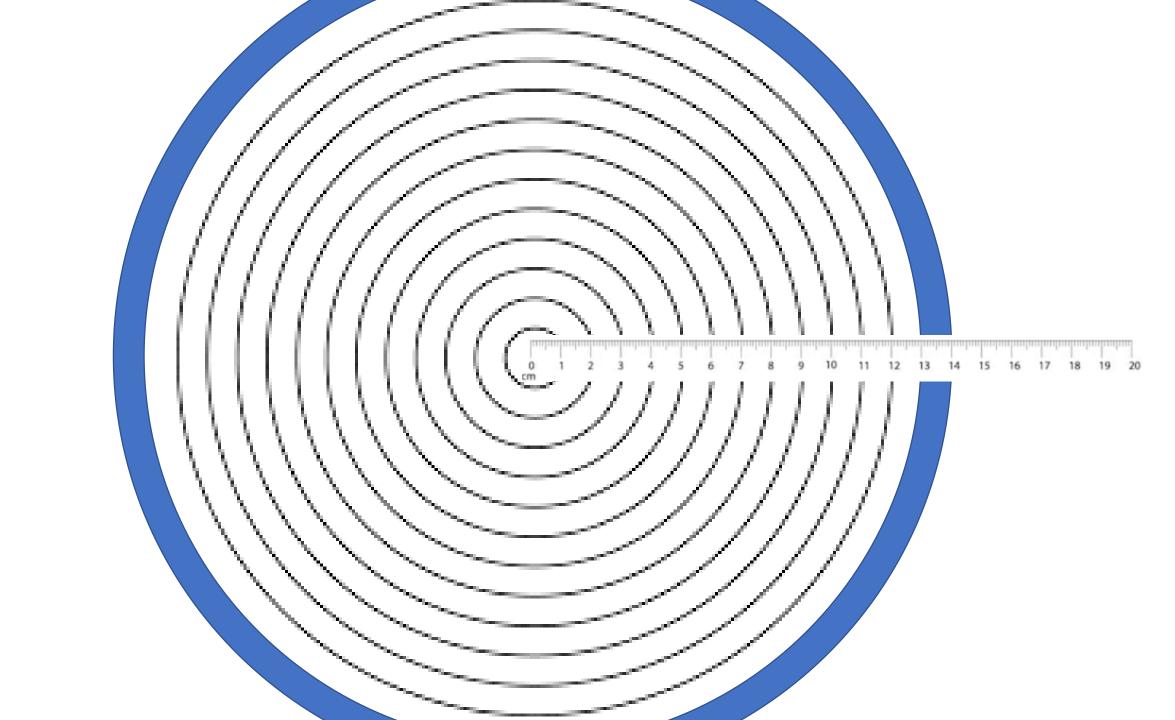
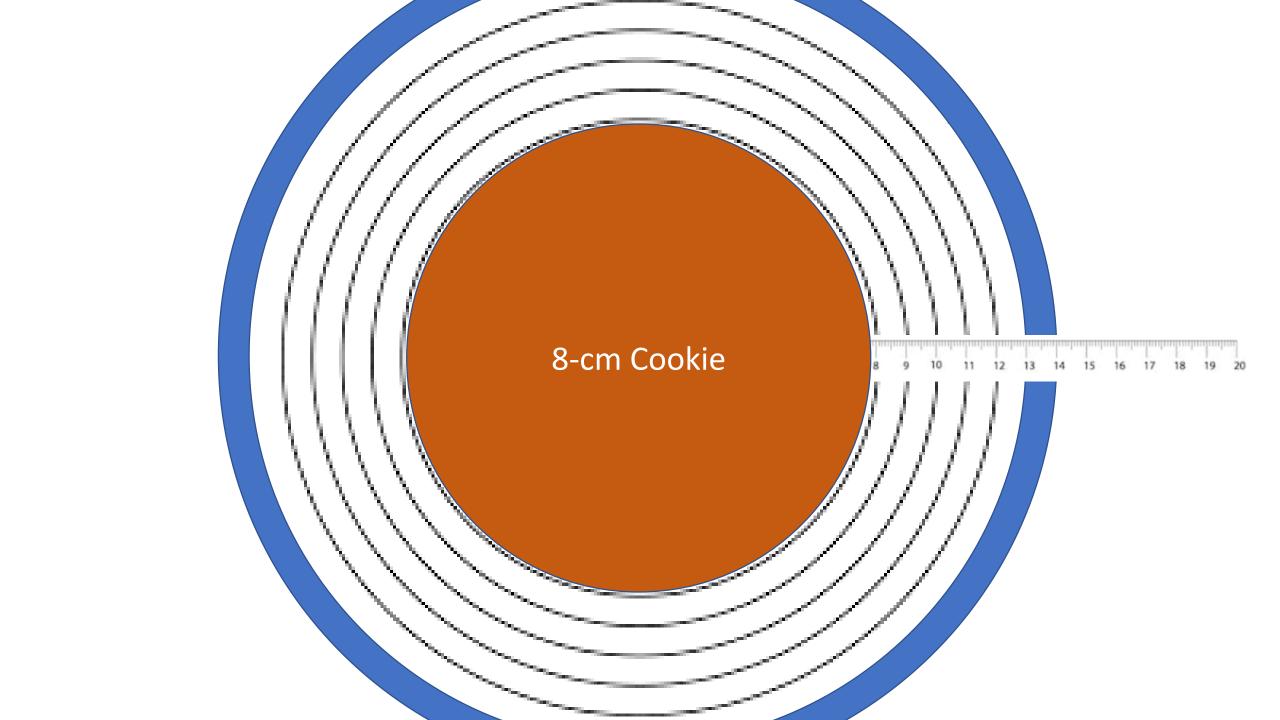
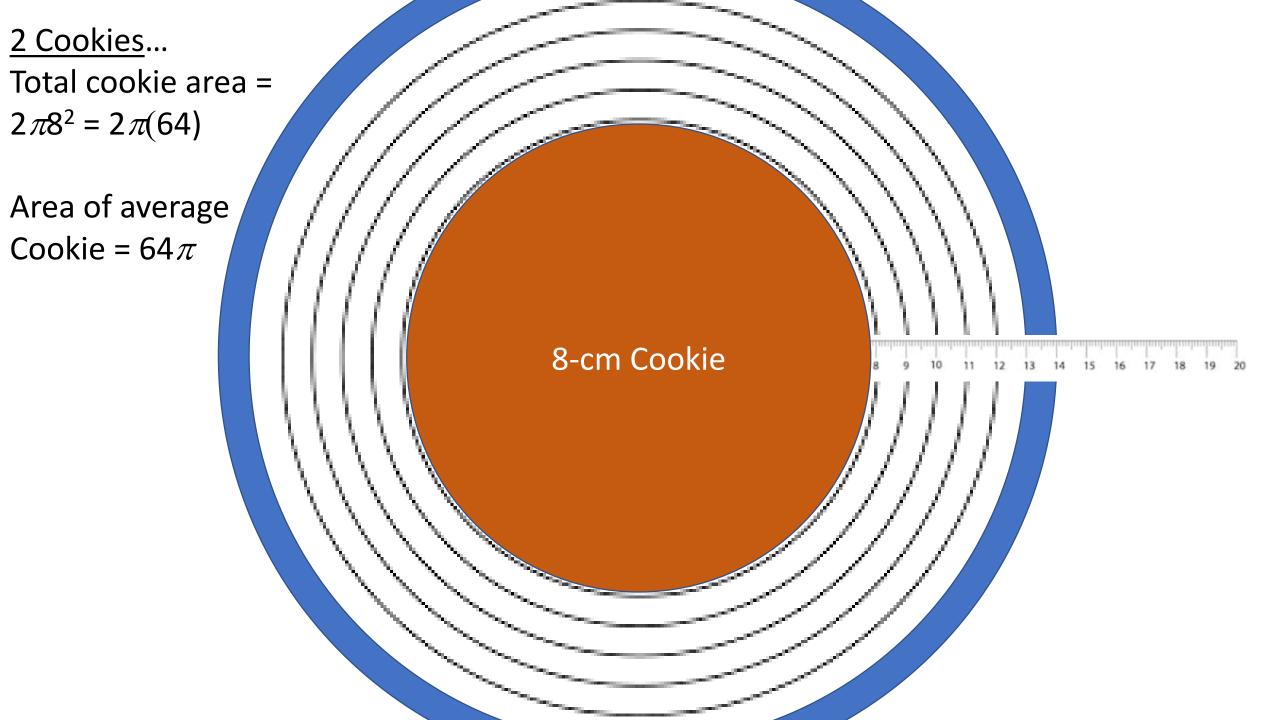


Two Pairs of Cookies

- ☐ One with average radius of 8 cm
- ☐ Other with average radius of 7 cm
- ☐ Which pair of cookies would you prefer?



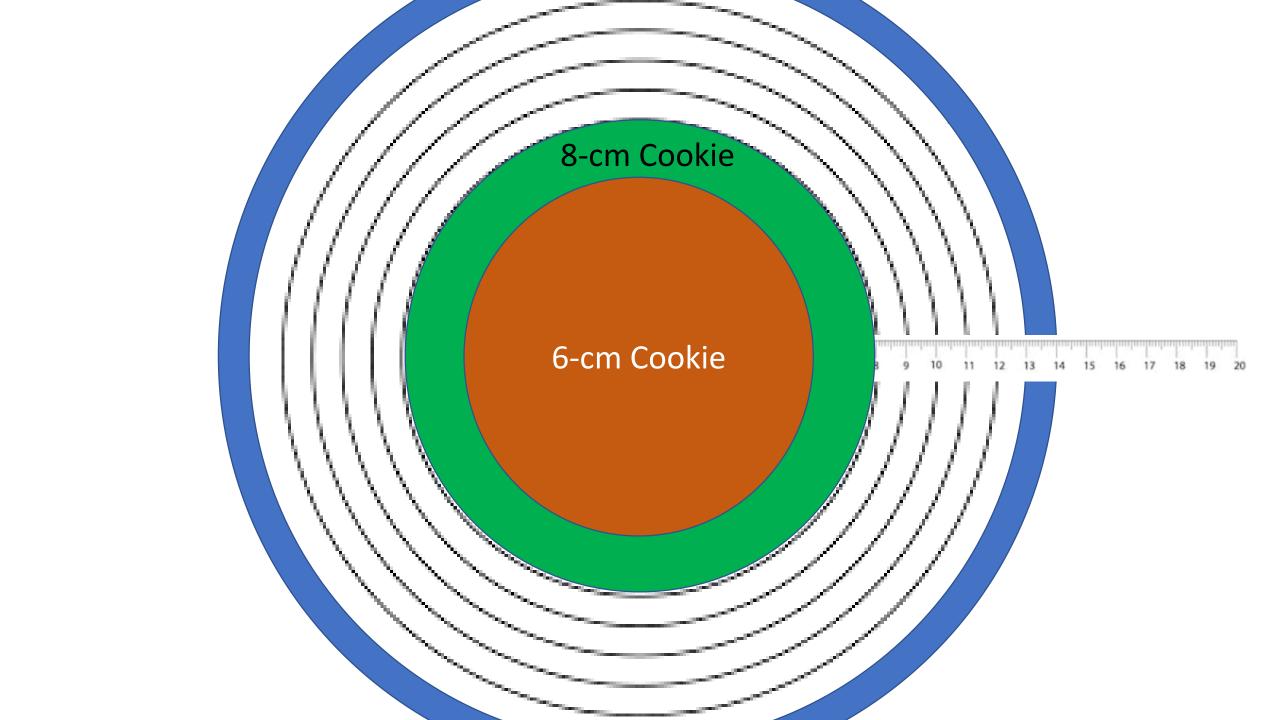




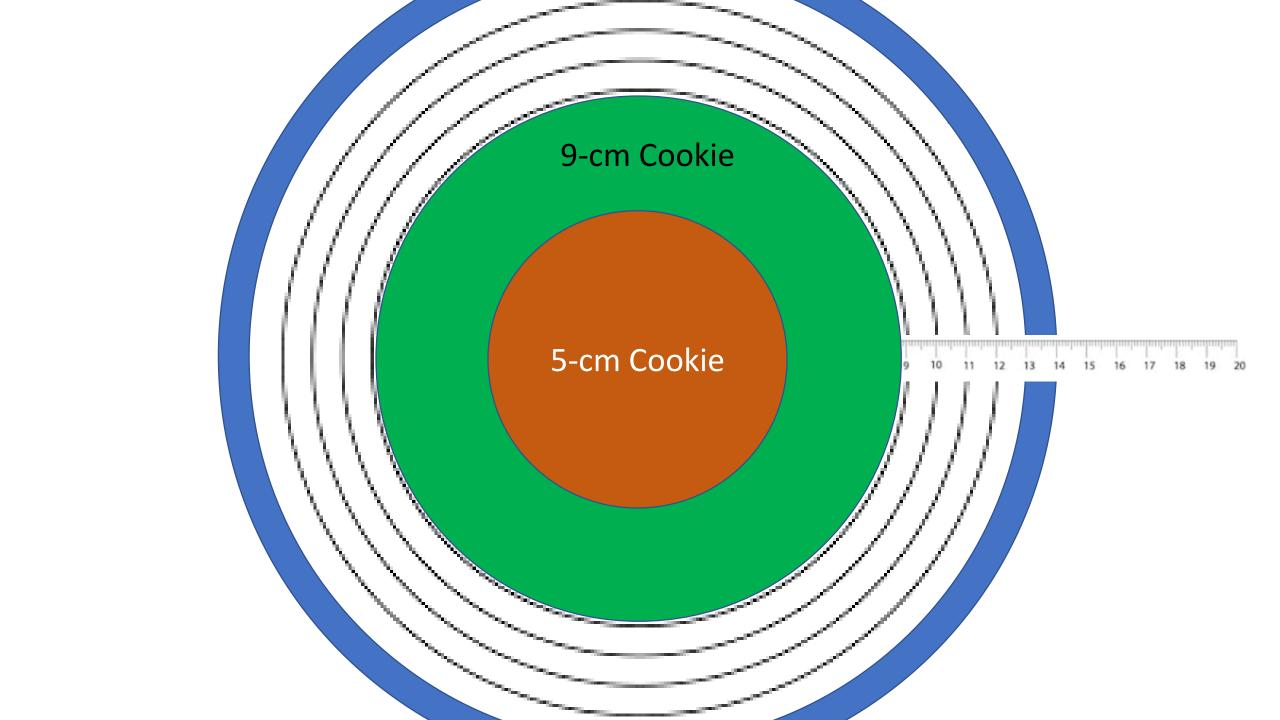




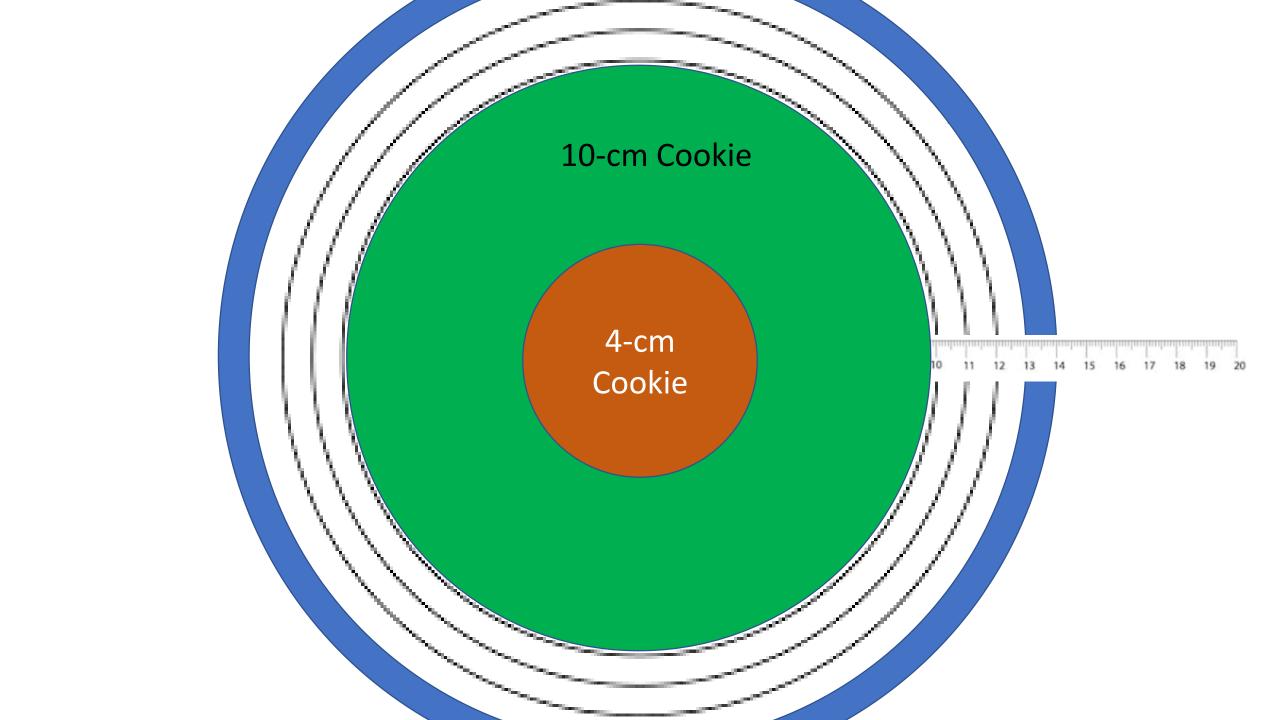
We are now going to start making two unequal size cookies, one smaller and one larger, always keeping the average radius of the two cookies equal to 7 cm, the initial radii of the two cookies. Each time we will compute the total area of the two cookies and the average area per cookie..

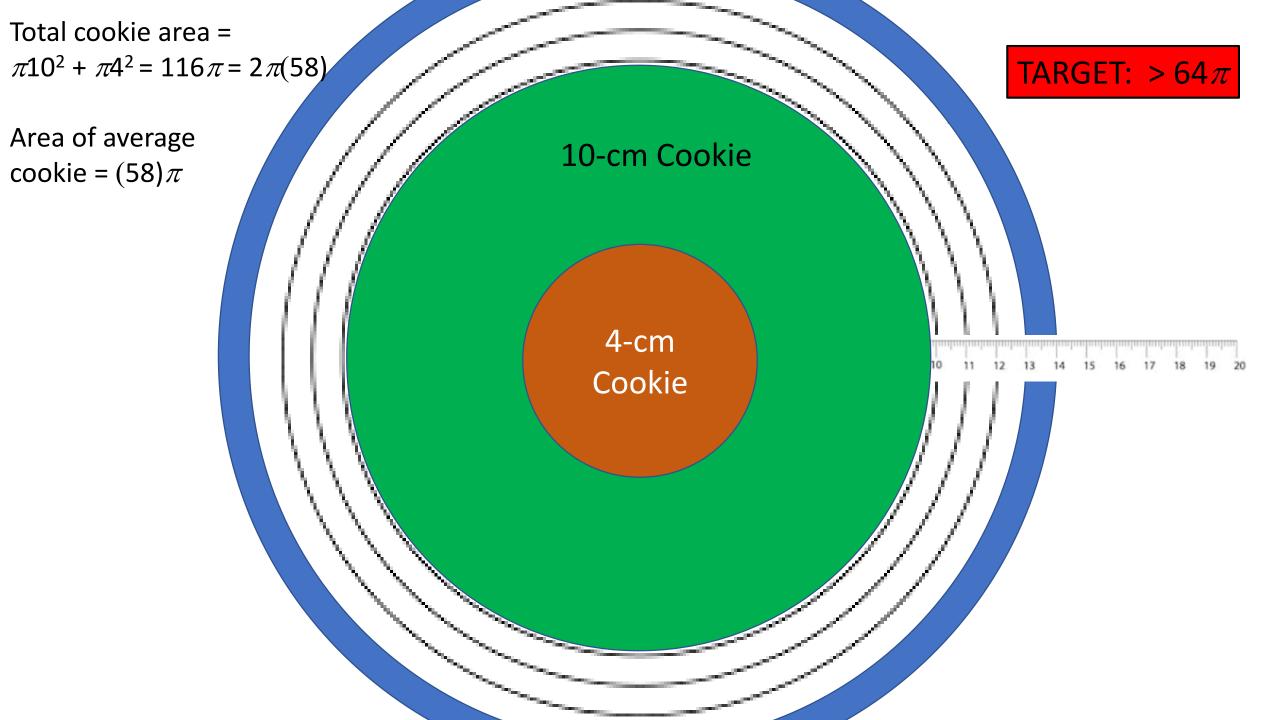








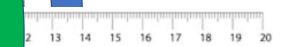










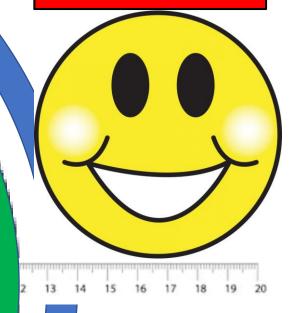


Total cookie area = $\pi 12^2 + \pi 2^2 = 148 \pi = 2 \pi (74)$

Area of average cookie = $(74)\pi$











Total cookie area = $\pi 13^2 + \pi 1^2 = 170\pi = 2\pi(85)$

TARGET: $> 64\pi$

Area of average cookie = $(85)\pi$

