

1st idea

One of the side equals the circle's circumference so it'll not waste any space. I chose the side that's 21 cm as the circle's circumference.

1st idea's Method

$$\begin{aligned} &(((21 \div \pi) \div 2)^2) \pi \times (29.6 - 21 \div \pi) = 804.1886121 \\ &21 \div \pi \approx 6.6845 \quad 6.6845 \div 2 = 3.34225 \quad 3.34225^2 \approx 11.1707 \\ &11.1707 \times \pi \approx 35.09366 \quad 29.6 - 6.6845 = 22.9115 \\ &35.09366 \times 22.9115 \approx \mathbf{804.0485} \end{aligned}$$

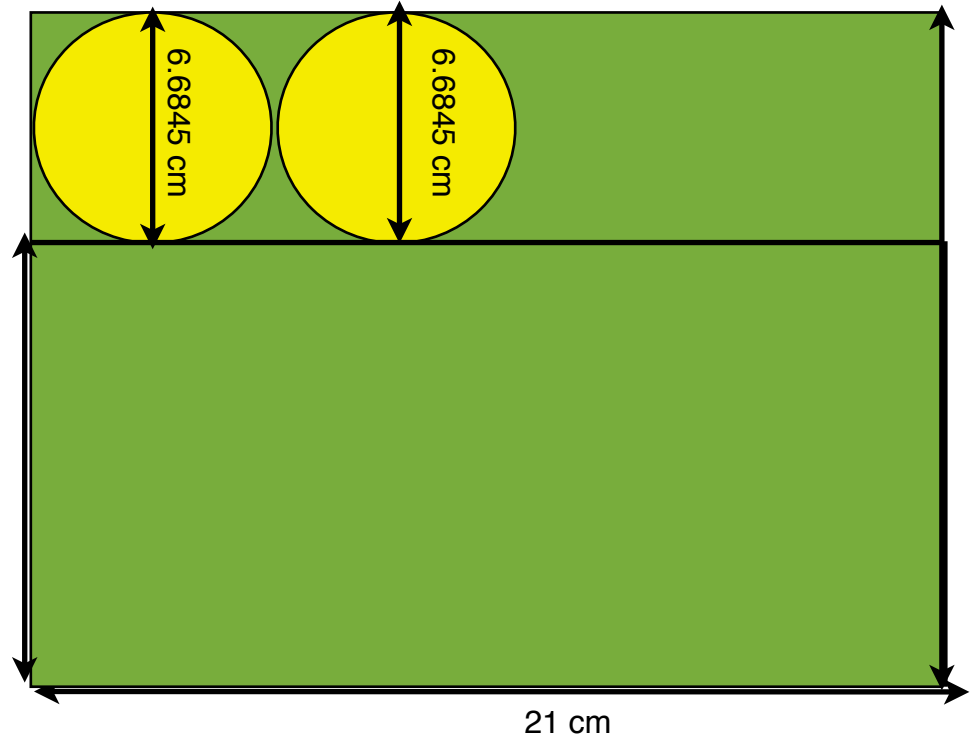
2nd idea

One of the side equals the circle's circumference so it'll not waste any space. I chose the side that's 29.6 cm as the circle's circumference. It was bigger because the circle's area got bigger.

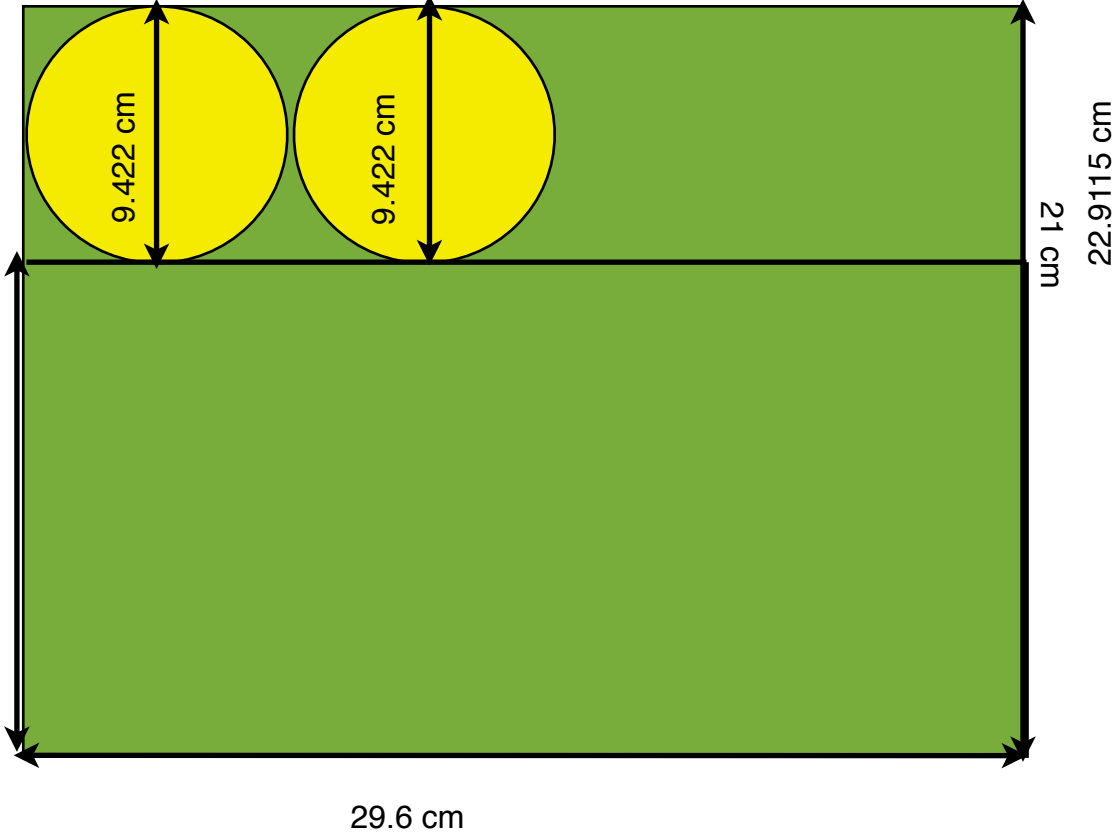
2nd idea's Method

$$\begin{aligned} &(((29.6 \div \pi) \div 2)^2) \pi \times (21 - 29.6 \div \pi) = 807.2529233 \\ &29.6 \div \pi \approx 9.422 \quad 9.422 \div 2 = 4.711 \\ &4.711^2 \approx 22.1935 \quad 22.1935 \times \pi \approx 69.723 \\ &21 - 9.422 = 11.578 \\ &69.723 \times 11.578 \approx \mathbf{807.2529} \end{aligned}$$

1st idea's Diagram



2nd idea's Diagram



29.6 cm

21 cm

22.9115 cm

21 cm

29.6 cm

11.578 cm