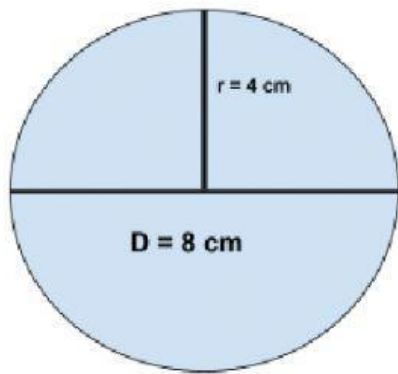


### Finding Area of a Circle

$$\text{Area} = \pi r^2$$



If Diameter (d) = 8 cm,  
what is the Radius (r)?

$$\begin{aligned} r &= d \div 2 \\ &= 8 \div 2 \\ &= 4 \text{ cm} \end{aligned}$$

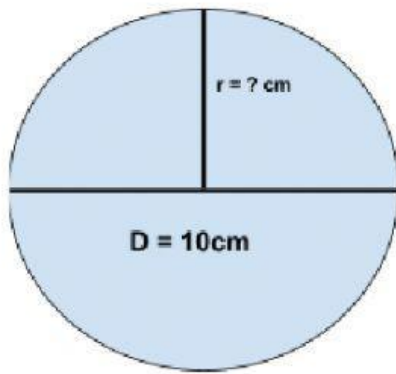
**What is this circle's Area?**

$$A = \pi r^2$$

$$= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}^2$$

$$= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} \quad 3.14 \quad 16 \quad 4 \quad 50.24$$

$$= \underline{\hspace{2cm}} \text{ cm}^2$$



**What about the Area of a circle where  $d = 10\text{ cm}$ ?**

$$\begin{aligned} r &= d \div 2 \\ &= 10 \div 2 \\ &= 5\text{ cm} \end{aligned}$$

$$A = \pi r^2$$

$$= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}^2$$

$$= \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

$$= \underline{\hspace{2cm}} \text{ cm}^2$$