

$$C = 2\pi r$$

$$A = \pi r^2$$

$$3.14(8)^2 =$$

$$3.14(64) = 200.96 \text{ cm}^2$$

P 66

#2



$$A = \pi r^2$$

$$C = 2\pi r$$

$$62.8 = 2\pi r$$

$$62.8 = 2(3.14)r$$

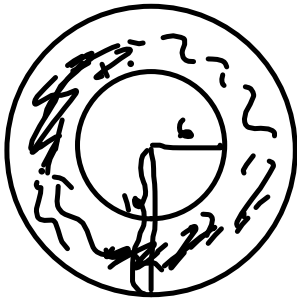
$$\frac{62.8}{6.28} = \frac{6.28r}{6.28}$$

$$10 = r$$

$$\left. \begin{aligned} \frac{62.8}{2} &= \frac{2}{2}\pi r & A &= \pi 10^2 \\ \frac{31.4}{\pi} &= \frac{\pi}{\pi} r & A &= 314 \text{ cm}^2 \end{aligned} \right\} \boxed{10=r}$$

$$\begin{aligned} A &= \pi r^2 \\ &= (3.14)(10)^2 \\ &= 3.14(100) \\ &= 314 \text{ cm}^2 \end{aligned}$$

#3



$$\text{Shaded Area} = \text{Area}_L - \text{Area}_s$$

$$A = \pi r^2 \quad L: A = \pi 10^2 \quad \text{A of full disc} = 314 \text{ cm}^2$$

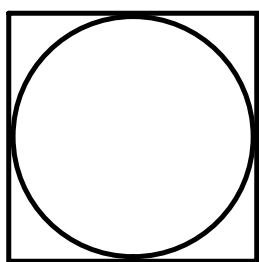
$$S: A = \pi 6^2 \quad \text{A of small disc} = 113.04 \text{ cm}^2$$

$$314 - 113.04 \text{ cm}^2 = \boxed{200.96 \text{ cm}^2}$$

r	$C = 2\pi r$	$A = \pi r^2$
25	157	1962.5
8	50.24	200.96
13	81.64	530.66
31	194.68	3017.54
4.5	28.26	63.59

$$\frac{530.66}{3.14} = \frac{\pi r^2}{3.14}$$
$$\sqrt{169} = \sqrt{r^2}$$
$$13 = r$$

#5



$$P = 31.4$$

$$S_d = \frac{31.4}{4} = 7.85 = d$$

$$r = \frac{7.85}{2} = 3.925$$

$$\begin{aligned} A &= \pi r^2 \\ &= 3.14(3.925)^2 \\ &= 48.37 \text{ cm}^2 \end{aligned}$$

#6

$$A = \pi r^2$$

$$\frac{39.44}{3.14} = \frac{3.14 r^2}{3.14}$$

$$\sqrt{12.56} = \sqrt{r^2}$$

$$3.54 = r$$

$$C = 2\pi r$$

$$= 2(3.14)(3.54)$$

$$= 22.33 \text{ cm}$$

Attachments

Area of Circle.asf