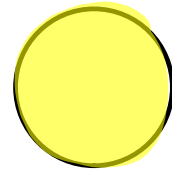


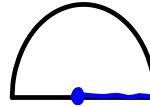
Area of Circles

3/6

Area - The space inside a circle



Semi-Circle - $\frac{1}{2}$ Circle



Formula: $A = \pi r^2$

* You MUST use the radius *

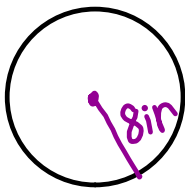
* Label is units²

Examples

PEMDAS



①

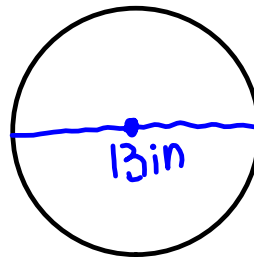


$$A = \pi r^2$$

$$A = \pi \cdot 8^2$$

$$A = 201.1 \text{ in}^2$$

②



$$D = 13 \div 2$$

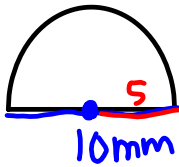
$$R = 6.5 \text{ in}$$

$$A = \pi r^2$$

$$A = \pi \cdot 6.5^2$$

$$A = 132.7 \text{ in}^2$$

③



R:5

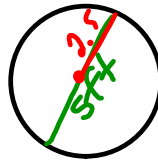
$$A = \pi r^2$$

$$A = \pi \cdot 5^2$$

$$A = \frac{78.5}{2}$$

$$A = 39.3 \text{ mm}^2$$

④



$$5 \div 2 = 2.5$$

$$A = \pi r^2$$

$$A = \pi \cdot 2.5^2$$

$$A = 19.6 \text{ ft}^2$$

⑤



$$A = \pi r^2$$

$$A = \pi \cdot 9^2$$

$$A = \frac{254.46}{2}$$

$$127.2 \text{ cm}^2$$

A circular sprinkler can cover a radius of 5 feet. What is the area of grass that is being watered?



$$A = \pi r^2$$

$$\pi \cdot 5^2$$

$$A = 78.5 \text{ ft}^2$$