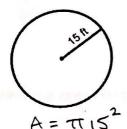
Review

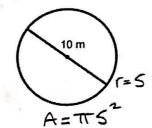
radiusarea $\pi \times \dot{r}^2$

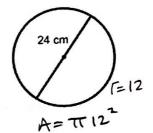
The area of a circle is the number of square units inside the circle.

Area of a Circle = πr^2

Examples
1. Area =
$$\frac{25\pi \text{ H}^2}{2.5 \text{ Area}}$$
 2. Area = $\frac{25\pi \text{ M}^2}{2.5 \text{ Area}}$ 3. Area = $\frac{144\pi \text{ cm}^2}{2.5 \text{ Area}}$ 4. Area = $\frac{1.0625\pi \text{ m}^2}{2.5 \text{ Area}}$









5. In terms of π , find the area of a circle whose diameter is 16. Γ = 8

$$7 = \pi s^2$$

= 64π units²

6. Find the area of a circle whose circumference is 24π . Leave your answer in terms of π .

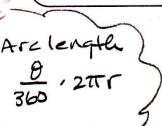


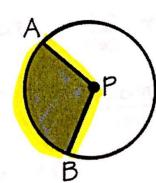
Area of a Sector of a Circle

A sector

is the region bounded by two radii and their intercepted arc.

Area of a Sector =





Sector APB is shaded in⊙P.

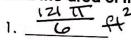
The unshaded region is also a sector.

Find the area of the sector of the circle. Leave in terms of II.

1. 121 TT 612

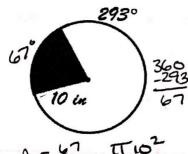
2. 18 m²

3. 15T cm²

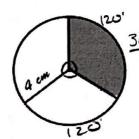


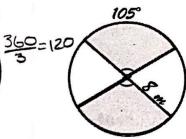


$$A = \frac{60}{360} \cdot \pi 11^2$$



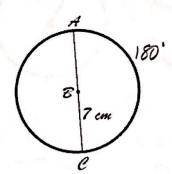
$$A = \frac{67}{360}$$
, $T \cdot 10^2$





$$A = \frac{105}{360} \cdot \pi 8^2$$

5. Find the area of sector ABC. Round to the nearest hundredth.



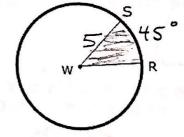
$$A = \frac{180}{360} \cdot \pi 7^2$$

$$\approx 76.97 \, \text{cm}^2$$

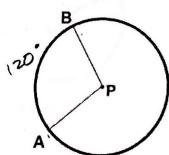
S and R are two points on \odot W with radius 5 m and $m\angle SWR = 45^{\circ}$. Find the area of the sector SWR. Round to the nearest hundredth.

$$A = \frac{45}{360} \cdot \pi 5^2$$

$$A = 9.82 \, m^2$$



7. Find the radius of \bigcirc P if the area of sector APB is 108π square feet and $m\angle APB = 120^{\circ}$.



(360)
$$108\pi = \frac{120}{360} \cdot \pi r^2 (366)$$

$$\frac{38,880 \pi = 120 \pi r^2}{120 \pi}$$

$$324 = r^2$$