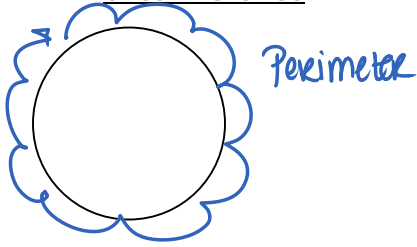
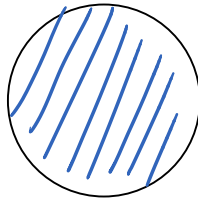


AREA OF CIRCLES

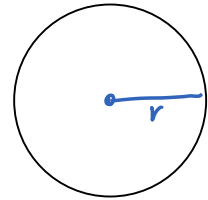
1. Use the circle below to describe circumference



2. Use the circle below to describe area.



3. Use the circle below to draw a radius & diameter.



Circle Formulas

Diameter $\underline{\quad 2r \quad}$

Radius $\underline{\quad r \quad}$

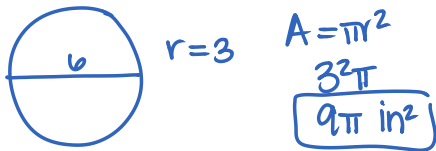
Circumference $\underline{\quad 2\pi r \quad}$

Area $\underline{\quad \pi r^2 \quad}$

Find each measurement in terms of π (exact).



4. Find the area of a pizza with a diameter of 6 inches.



5. Find the radius of a circular table that has a circumference of 20π inches.

$$\frac{2\pi r}{\pi} = \frac{20\pi}{\pi}$$

$$2r = 20$$

$$\boxed{r = 10}$$

6. An indoor swimming pool has an area of 100π . Find the diameter.

$$A = 100\pi$$

$$100\pi = \pi r^2$$

$$\sqrt{100} = \sqrt{r^2}$$

$$10 = r \quad d = 20$$

7. If the area of a figure is 400π , what is the radius?

$$400\pi = \pi r^2$$

$$400 = r^2$$

$$20 = r$$

8. Find the Circumference of a circle with an Area of 64π .

$$64\pi = \pi r^2$$

$$r = 8$$

$$C = 2\pi r$$

$$= 2 \cdot \pi \cdot 8$$

$$\boxed{16\pi}$$