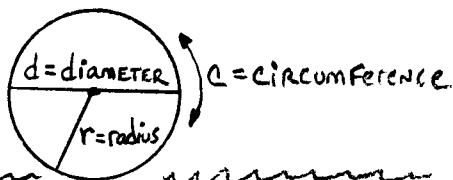


TERMS:



FORMULA:

$$\frac{C}{d} = \pi \approx \underline{\underline{3.14}}$$

\* LOOK USE THIS FOR PI

$$\text{area} = a = \pi r^2$$

$$r = \frac{1}{2} \cdot d \quad \text{OR} \quad d = 2r$$

$$\therefore C = \pi d \quad \text{OR} \quad d = \frac{C}{\pi}$$

EX) Find: C, a for



SOLUTION: Since

$$\frac{C}{d} = \pi \quad \text{OR} \quad \pi d = C$$

$$(3.14)(10) = C$$

$$\boxed{31.4 = C} \text{ inches}$$

$$a = \pi r^2 \quad \text{since } r = \frac{1}{2} \cdot d \quad r = 5 \text{ inches}$$

$$\therefore a = (\pi)(5)^2 = (\pi)(5 \cdot 5) = \pi \cdot 25$$

$$a = 3.14 \cdot 25$$

$$\boxed{a = 78.5 \text{ in}^2}$$

Find  $r = \text{radius}$  for circles with the following diameters:

①  $d = 12 \text{ in}$   $r = \underline{\hspace{2cm}}$

②  $d = 6 \text{ cm}$   $r = \underline{\hspace{2cm}}$

③  $d = 64 \text{ m}$   $r = \underline{\hspace{2cm}}$

④  $d = 9.6 \text{ mm}$   $r = \underline{\hspace{2cm}}$

Find  $C = \text{circumference}$  for circles with the following diameters:

⑤  $d = 100 \text{ in}$   $C = \underline{\hspace{2cm}}$

⑥  $d = 14 \text{ cm}$   $C = \underline{\hspace{2cm}}$

Find the area of the circles given the following:

⑦  $d = 9 \text{ m}$   $a = \underline{\hspace{2cm}}$

⑧  $r = 4 \text{ in}$   $a = \underline{\hspace{2cm}}$

⑨ Find 3 circular objects AT HOME, measure  $C, d$  then find  $\frac{C}{d}$ . Use AND COMPLETE THE TABLE BELOW FOR THIS. Use cm\*

NOTE: there are 2.54 cm per inch.

DESCRIPTION OF ITEM	C (measure)	d (measure)	C/d (CALCULATE)
I			
II			
III			

(cm)

(cm)