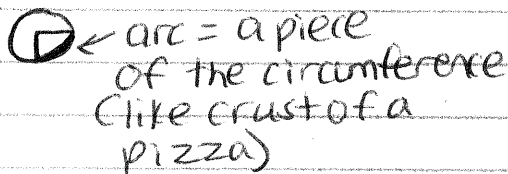
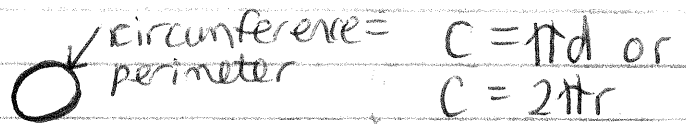
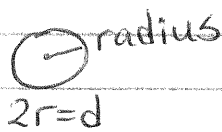
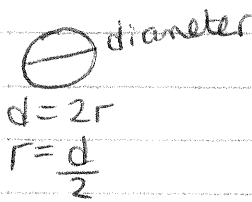


# Circles Memory aid

## Parts of a Circle



$$\pi = 3.14$$

## Circumference - Perimeter :

1- Find Circumference  
Given diameter



$$C = \pi d$$

$$= \pi \cdot 15$$

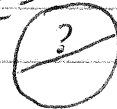
$$= 3.14 \cdot 15$$

$$= 47.1 \text{ cm}$$

$d = 15 \text{ cm}$   
 $r = 7.5 \text{ cm}$   
 $\pi = 3.14$   
 $C = ?$

2- Find diameter given  
Circumference

$$C = 37.68 \text{ cm}$$



$$C = \pi d$$

$$\div \frac{37.68}{3.14} = \frac{3.14 \cdot d}{3.14}$$

$$C = 37.68$$

$$\pi = 3.14$$

$$d = ?$$

$$12 \text{ cm} = d$$

\* if asked radius  
divide diameter by 2  
so  $r = 12 \div 2 = 6$

## Area :

1- Find Area given  
radius



$$A = \pi r^2$$

$$= 3.14 \cdot 6^2$$

$$= 3.14 \cdot 36$$

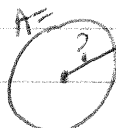
$$= 113.04 \text{ cm}^2$$

$A = ?$   
 $\pi = 3.14$   
 $r = 6$

$$* 6^2 = 6 \cdot 6$$

squared  
units for  
area

2- Find radius given  
area



$$A = \pi r^2$$

$A = 200.96$   
 $\pi = 3.14$   
 $r = ?$

$$\div \frac{200.96}{3.14} = \frac{3.14 \cdot r^2}{3.14}$$

$$64 = r^2$$

$$\sqrt{64} = r$$

$$8 \text{ cm} = r$$

\*  $\sqrt{x}$  and  $x^2$  are opposites.