

**May 25, 2011**

**Happy Birthday, Cookie Monster!!**

**Today's Agenda ~**

**Notes on circles**

**Finish tests**

**Homework: Purple worksheet - Circles**

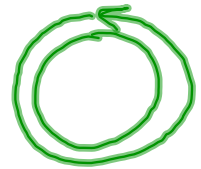
## Circles

Do you remember the formulas for...

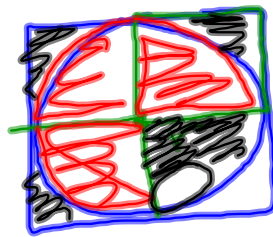
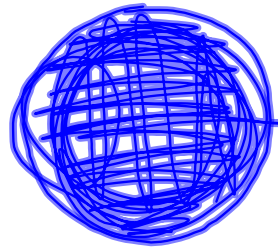
Diameter =  $2 \cdot r = r + r$



Circumference =  $d \cdot \pi = 2r\pi$



Area =  $\pi \cdot r^2$



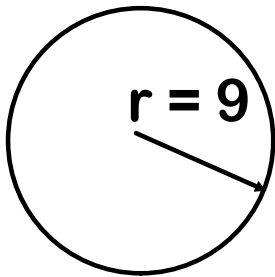
$A = r \cdot r = r^2$

$4r^2$

$3r^2 + .14r^2$   
 $3.14r^2$

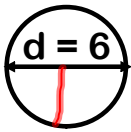
A few practice problems...

Calculate the area and circumference of each circle.  
(Use the  $\pi$  key or 3.14.)



$$\text{Area} = \pi \cdot r^2 = \pi \cdot 9^2 = 81\pi = 254.34$$

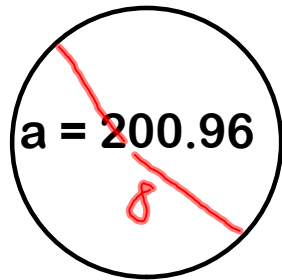
$$\text{Circumference} = 2 \cdot r \cdot \pi = 2 \cdot 9 \cdot \pi = 56.52$$



$$\frac{d}{2} = 3 = r$$

$$\text{Area} = \pi \cdot r^2 = \pi \cdot 3^2 = 28.27$$

$$\text{Circumference} = d \cdot \pi = 6\pi = 18.84$$



$$\text{Radius} = 8$$

$$\text{Diameter} = 8 \cdot 2 = 16$$

$$\text{Circumference} = d \cdot \pi = 16\pi = 50.24$$

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

$$\frac{200.96}{\pi} = \frac{\pi \cdot r^2}{\pi}$$

$$\sqrt{64} = \sqrt{r^2}$$

$$8 = r$$

$$A \div \pi = r^2$$

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

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

$$r = C \div 2 \div \pi$$

**Time to finish the test or  
work on the homework.**

**Everyone must be SILENT.**

**The purple worksheet is due tomorrow,  
even if you haven't finished the test.**

After getting the tests back to those who still need to finish,  
and after handing out the homework worksheet,  
then I will hand back the tests to everyone who finished yesterday.  
We will talk tomorrow about how to improve your scores.