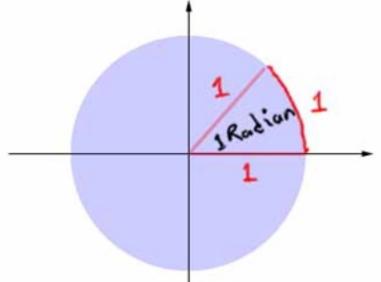
Another method for measuring angles is using radian measure. Let's start with a "unit circle" (a circle with radius on 1). The circumference of a circle with radius of 1 is:

 $C = 2\pi r$.



When the radius is 1, the Circumference (distance around the circle) is $2\pi(1)$ or 2π . (Half the circle $180^{\circ} = \pi$ radians.) When the distance around the circle (arc length) is 1, the measure of the central angle is 1 radian (approximately 57°).

To convert from degrees to radians multiply by $\pi/180$ To convert radians to degrees multiply by $180/\pi$ Ex 1) Convert 60° to radians.

$$60^{\circ} = 60^{\circ} \cdot \frac{11}{180}$$

$$= 60 \frac{11}{180}$$

$$= \frac{60 \frac{11}{180}}{3}$$

Ex 2) Convert $3\pi/4$ to degrees.

$$\frac{3\pi}{4} = \frac{3\pi}{4} \cdot \frac{180}{\pi}$$

$$= \frac{3\pi}{4} \cdot \frac{180}{\pi}$$

$$= (135^{\circ})$$