## RADIAN MEASURE

measure is the $\qquad$ of the length of an arc
intercepted by a $\qquad$ and the $\qquad$ of the circle.

Given: $\mathrm{C}=2 \pi r$
If $r=1$, then $C=2 \pi(1)$ or $C=$ $\qquad$
Since $360^{\circ}$ is one full rotation around the circle, then $360^{\circ}=$ $\qquad$
$\frac{1}{4}$ of the way around the circle is $\frac{1}{4}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{1}{4}(2 \pi)=$ $\qquad$ .
$\frac{1}{2}$ of the way around the circle is $\frac{1}{2}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{1}{2}(2 \pi)=$ $\qquad$ -
$\frac{3}{4}$ of the way around the circle is $\frac{3}{4}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{3}{4}(2 \pi)=$ $\qquad$ .

## RADIAN MEASURE

$\overline{\text { intercepted by a }}$
$\qquad$ of the length of an arc
$\qquad$ and the $\qquad$ of the circle.

Given: $C=2 \pi r$
If $r=1$, then $C=2 \pi(1)$ or $C=$ $\qquad$
Since $360^{\circ}$ is one full rotation around the circle, then $360^{\circ}=$ $\qquad$ -
$\frac{1}{4}$ of the way around the circle is $\frac{1}{4}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{1}{4}(2 \pi)=$ $\qquad$ -.
$\frac{1}{2}$ of the way around the circle is $\frac{1}{2}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{1}{2}(2 \pi)=$ $\qquad$ -.
$\frac{3}{4}$ of the way around the circle is $\frac{3}{4}\left(360^{\circ}\right)=$ $\qquad$ or $\frac{3}{4}(2 \pi)=$ $\qquad$ -


To convert degrees to $\qquad$ multiply by $\frac{\pi \text { radians }}{180^{\circ}}$

To convert radians to $\qquad$ multiply by $\frac{180^{\circ}}{\pi \text { radians }}$


To convert degrees to $\qquad$ multiply by $\frac{\pi \text { radians }}{180^{\circ}}$

To convert radians to $\qquad$ multiply by $\frac{180^{\circ}}{\pi \text { radians }}$

