

Note's On: Circular Motion

Complete these notes by adding the missing information using the Circular Motion notes posted on our website and chapter 9 Uniform Circular Motion, of our textbook.

Term	Details/Definition/Examples
Rotation	When an object turns about an _____
	Examples: Merry-go-round ride, _____, a basketball
	Spinning on someone's finger
Revolution	When an object turns about an _____
	Examples: _____ on a Merry-go-round ride,
	_____ going around the Sun
Linear Speed	How fast something is moving in a _____
Tangential Speed	The speed of something moving along a _____ path
	Tangential speed is _____ tangent to the circle
Rotational Speed	The number of _____ per unit of time
	"rpm" stands for revolutions per minute
Speed	Is defined as _____ over time
Circumference	Is the distance around a circle, measured in meters
	Circumference = _____
	"r" is the radius of the _____
radius	The _____ from the center of a _____ to the perimeter of the circle
Period (T)	The time it takes a make one full _____ or _____
	revolution of a object
Period (T) formula	T = _____
Frequency (f)	The _____ of rotation or revolutions per unit time
Frequency (f) Formula	f = _____
	$v = \frac{2\pi r}{T}$ $v = 2\pi r f$

Sample Calculations

Merry Go Round Calculations

a)	
b)	
c)	

Rotation vs Revolution: In your own words explain the difference between rotation and revolution and give examples of each.