# Unit 6: Division: Map Reference Frames: Measures of Angles Study Guide 

## Algorithms

* Parts of a division problem: quotient, divisor, dividend, \& remainder
* Parts of a multiplication problem: factors/product
* Methods for dividing: Traditional \& Partial Quotient


## Fractions

* Parts of Fractions: numerator \& denominator
* Types of Fractions: proper, improper, \& mixed number


## Movement

* Terminology - rotation, turn, clockwise, \& counterclockwise
* Be able to match degrees \& fractions with rotations.

Example: Turn clockwise $\frac{1}{4}$ of a turn... how many degrees is that?

## Angles

* Parts: sides (rays, lines, or line segments), vertex (vertices), \& rotation arc
* Types: (Know the degrees or degree range for each.) SRB p. 92 \& 93
reflex
acute
obtuse
straight
right
* What is the symbol for an angle?
* What are two ways an angle can be named?
* How many degrees are circles and semicircles?


## Measurement \& Construction of Angles

* Tools: straightedge, protractor, full circle $\left(360^{\circ}\right)$ protractor
* Parts of a protractor: base line, center (whole), left \& right angle measurements
* Know how to measure \& construct angles within $3^{\circ}$.


## Using Letter-Number Pairs \& Coordinate Grids

* Parts: Index of Locations, letter-numbered pairs, \& ordered number pairs
* Global Coordinate Grid System - longitude \& latitude (parallels)
* Hemispheres: Northern, Southern, Eastern, \& Western
* Global landmarks: equator, prime meridian, \& International Dateline
* The earth spins eastward on its axis.
* The earth is shaped like a sphere.


## Secure Goals:

Students should be able to:

1. Divide multidigit numbers by 1-digit divisors; express remainders as fractions.
2. Solve division number stories' interpret remainders.
3. Multiply multidigit numbers and compare them.
4. Classify multidigit angles.
5. Plot points on a coordinate grid.
6. Insert parenthesis in an open sentence to make it true.
7. Round numbers.
