# 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 ($360^0$) protractor
* Parts of a protractor: base line, center (whole), left & right angle measurements
* Know how to measure & construct angles within $3^o$.

**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.