# 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
- $\star$  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°) 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.