Date 5/8/2011

COURSE: MSC III
MODULE 5: Geometry
UNIT 1: Measurement

## rallelograms and

Studemi ( Logbook

you work through the tutorial, complete the following.

What is your mission for this lesson? Explore quadriateral

quadrilatival is a four-sided closed figure.

parallelogram is a <u>quadrilatival</u> that has <u>two</u> pairs of <u>parallel</u> sides.

rectangle is a special kind of <u>parallelogiam</u> with <u>right</u> angles.

parallelograms:

angles have the same measure.

quare is a rectors le with four equal sides. A square lso a restangles are because all rectangles are

combus is a parallelogram with four <u>equal</u> Sides

Key Words:

Quadrilateral Parallelogram Diagonal of a quadrilateral

Rhombus

Trapezoid
Congruent triangles

#### Learning Objectives:

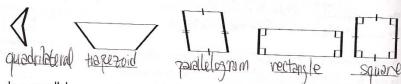
- Explore the properties of a parallelogram.
- Discover the area formula of a parallelogram.
- Explore the properties of a trapezoid.
- Discover the area formula of a triangle.

Destination





- **b.** A segment that is perpendicular to the base represents the <u>height</u> of the parallelogram.
- c. We can label the base \_\_\_\_\_ and the height \_\_\_\_
- **d.** The area formula for a parallelogram is  $A = \frac{1}{2} \times \frac{1}{2}$
- 9. A lipezoid is a quadrilateral that has on epair of parallel sides.
- 10. Label each type of quadrilateral shown below.



- 11. In a parallelogram or trapezoid, the segment that connects opposite vertices is called a <u>QL29012</u>
- 12. Triangles that have exactly the same Size and Shape are congruent triangles. The symbol  $\cong$  shows that one triangle is congruent to another triangle.
- 13. The area A of a right triangle is equal to  $\frac{1}{2} \times \frac{100}{2} \times \frac{100}{$
- 14. The height of a right triangle is a perpendicular segment drawn from a wellex to the opposite side.

# Homework (due May 15)

# Math III

Pages 161 -180 all

### Math IV

Pages 161-180 all Math Olympiad, Chapter 8, #1-20

Next week (May 15), please go to the school-wide graduation ceremony where we will present the Math Olympiad Awards.