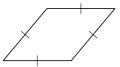
Properties of Rectangles, Rhombi, and Squares

Today I Can

- 1. Define and classify special types of parallelograms.
- 2. Use properties of diagonals of rhombi and rectangles.

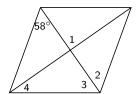
Rhombus

A parallelogram with all sides congruent.

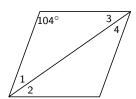


Example 1. Find the measure of each numbered angle in each rhombus.

(a)



(b)



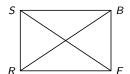
Rectangle

A parallelogram with 4 right angles.

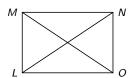


Example 2. Find the length of the diagonal in each rectangle.

(a)
$$SF = 2x + 15$$
 and $RB = 5x - 12$



(b)
$$LN = 4x - 17$$
 and $MO = 2x + 13$



Square

A parallelogram that is both a rectangle and a rhombus.



Example 3. Classify each of the following as either a rectangle, rhombus, or square.

(a) K(4, 8), L(0, 9), M(-2, 1), N(2, 0)

