**M30-3 Polygons Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

C2 Parallelogram Investigation

**Part A: Investigate Sides and Angles of Parallelograms**

For each parallelogram measure all sides and angles.

What do you notice about side lengths and angles?

**Part B: Investigate Diagonals of Parallelograms**

For each parallelogram measure the length of each diagonal (AC, BD) and each diagonal piece (AE, BE, CE, DE). Measure the angles formed by the diagonals.



E

What do you notice about the diagonal lengths and angles?

**M30-3 Polygons Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

C2 Rectangle & Rhombus Investigation

**Part A: Investigate Diagonals of Rectangles**

For each rectangle measure each diagonal and each diagonal piece.





What do you notice about the diagonal pieces?

**Part B: Investigate Diagonals of a Rhombus**

For each rhombus measure each diagonal and each diagonal piece. Also measure the angles formed by the diagonals.





What do you notice about the diagonal lengths and angles?

**M30-3 Polygons Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

C2 Isosceles Trapezoid Investigation

**Part A: Investigate Sides and Angles of Isosceles Trapezoids**

For each isosceles trapezoid measure each side and each interior angle.





What do you notice about the sides and angles?

**Part B: Investigate Diagonals of Isosceles Trapezoids**

For each isosceles trapezoid measure each diagonal.





What do you notice about the diagonal lengths?