

## Investigating Quadrilaterals - 2

### 2 Truths and a Lie:

#### Set 1:

“Rhombus is not a parallelogram” is a lie.

Rhombus possesses all the properties of a parallelogram. Hence, it is a parallelogram.

#### Set 2:

“Kite is a Rhombus” is a lie.

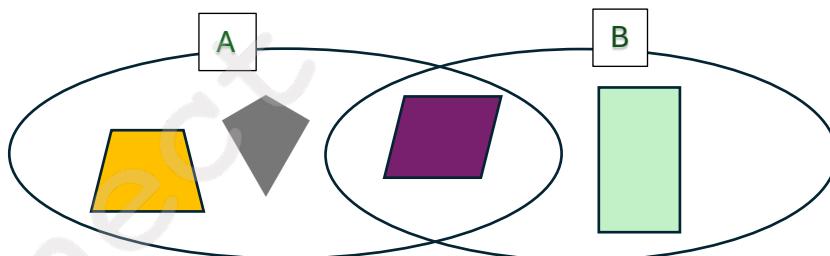
Kite’s side lengths and angle properties does not make it a Rhombus.

#### Set 3:

The third Venn diagram is a lie.

A: Opposite angles are congruent

B: One pair of side length is smaller than the other pair



The set A should have the quadrilaterals in which the opposite angles are congruent. As we can see, both the trapezoid and kite doesn't satisfy this criterion. While Set B, has a rectangle which has one pair of side smaller than the other pair. And Parallelogram in the common area satisfies both the criteria of Set A and Set B.

So, how to correct the lie?? By replacing the shapes in set A with any quadrilateral which satisfies the criteria.