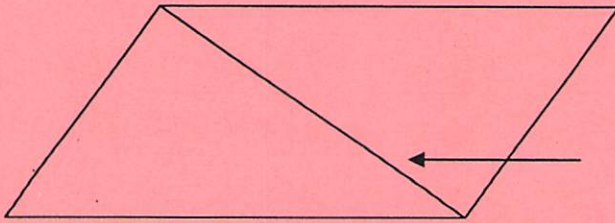
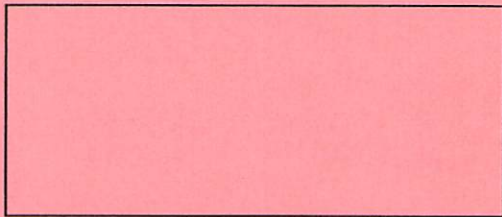


Properties of Parallelograms



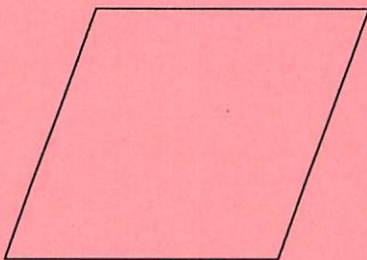
PARALLELOGRAM

1. Both pairs of opp sides $\cong$
2. Both pairs of opp sides $\parallel$
3. Both pair of opp $\angle$'s $\cong$
4. All pairs of consecutive $\angle$'s
5. Diagonal cuts Δ into 2 $\cong$ Δ 's ^{supp.}
6. Diagonals bisect each other



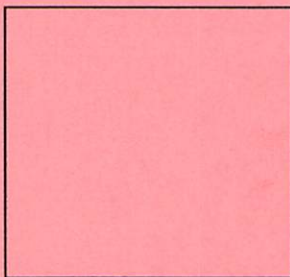
RECTANGLE

1. Has all of the properties of the parallelogram
2. 4 right $\angle$'s
3. Diagonals are $\cong$



RHOMBUS

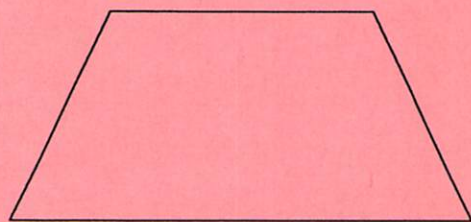
1. Has all of the properties of the parallelogram
2. All sides are $\cong$
3. Diagonals bisect opposite $\angle$'s
4. Diagonals are $\perp$



SQUARE

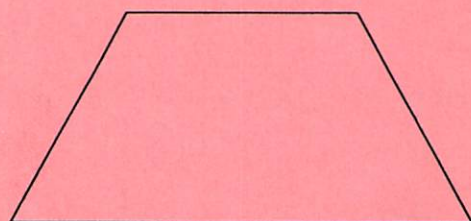
1. Has all of the properties of the rectangle
2. Has all of the properties of the rhombus

Properties of Non-Parallelograms



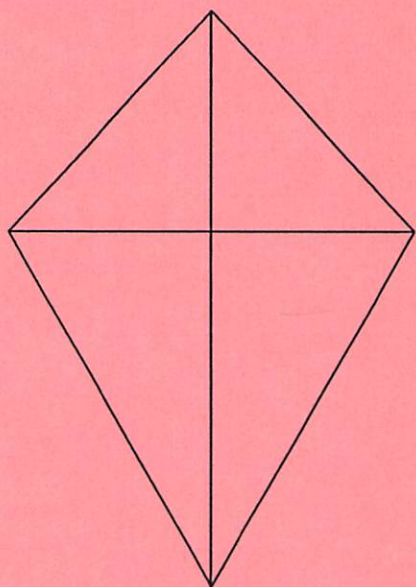
TRAPEZOID

- 1. Exactly 1 pair of opp sides $\parallel$
- 2. 1 pair of opp sides not parallel



ISOSCELES TRAPEZOID

- 1. Has all of the properties of the trapezoid
- 2. Non-Parallel sides $\cong$
- 3. Base $\angle$'s are $\cong$
- 4. Diagonals are $\cong$



KITE

- 1. 2 pairs of adjacents sides $\cong$
- 2. Diagonals are $\perp$
- 3. Exactly 1 pair of opp $\angle$'s $\cong$
- 4. 1 Diagonal is Bisected
(to and from $\cong$ opp $\angle$'s)
- 5. 1 Diagonal bisects $\angle$'s
(to and from vertices formed
by $\cong$ adjacent sides)