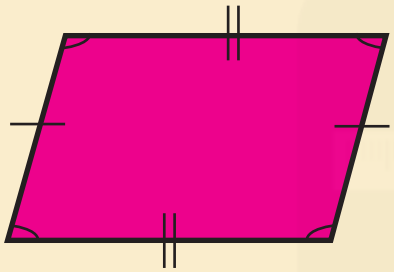
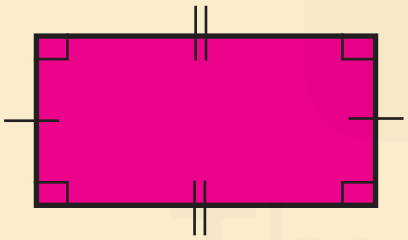
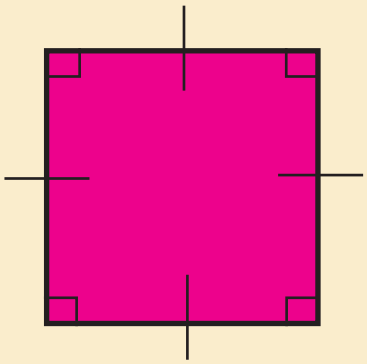
ThynkQuest

Properties of Quadrilaterals

Type	Properties
 Parallelogram	• The opposite sides are parallel and equal. • The opposite angles are equal. • The consecutive or adjacent angles are supplementary. • If any one of the angles is a right angle, then all the other angles will be at right angle. • The two diagonals bisect each other.
 Rectangle	• The opposite sides are parallel and equal to each other. • The diagonals bisect each other. • Both the diagonals have the same length.
 Square	• All four interior angles are equal to 90°. • All four sides of the square are congruent or equal to each other. • The opposite sides of the square are parallel to each other. • The diagonals of the square bisect each other at 90°. • The two diagonals of the square are equal to each other.

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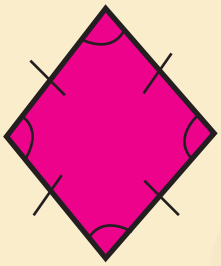
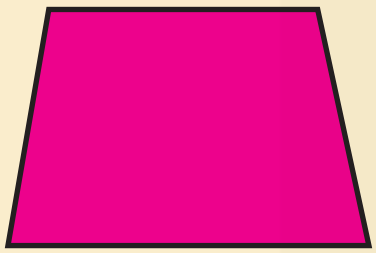
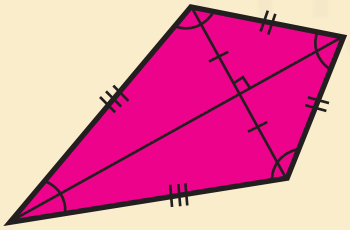
 Rhombus	• All sides of the rhombus are equal. • The opposite sides of a rhombus are parallel. • Opposite angles of a rhombus are equal. • In a rhombus, diagonals bisect each other at right angles. • Diagonals bisect the angles of a rhombus.
 Trapezium	• In trapezium, exactly one pair of opposite sides are parallel. • The diagonals intersect each other. • The non-parallel sides in the trapezium are unequal except in isosceles trapezium. • The line that joins the mid-points of the non-parallel sides is always parallel to the bases or parallel sides which is equal to half of the sum of parallel sides.
 Kite	• Two pairs of adjacent sides are equal. • One pair of opposite angles are equal. • The diagonals of a kite are perpendicular to each other. • The longer diagonal of the kite bisects the shorter diagonal. • The area of a kite is equal to half of the product of the length of its diagonals.