

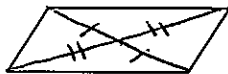
Section 6.4
Properties of
Diagonals

Essential Question

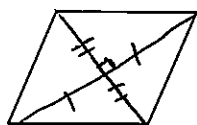
Name: Notes

Date: _____ Period: _____

What is special about the diagonals of a rhombus, rectangle, square, isosceles trapezoid and kite?

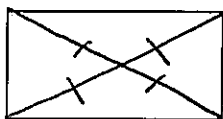


The diagonals of a parallelogram Bisect each other.



The diagonals of a rhombus Bisect each other.

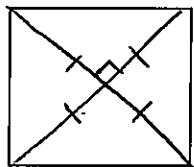
Diagonals are perpendicular h
<http://www.mathopenref.com/rhombusdiagonals.html>



The diagonals of a rectangle are Congruent.

The diagonals of a rectangle bisect each other.

<http://www.mathopenref.com/rectanglediagonals.html>

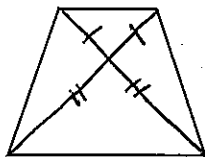


The diagonals of a square are Congruent.

The diagonals of a square are perpendicular.

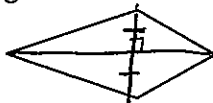
The diagonals of a square bisect each other.

<http://www.mathopenref.com/squarediagonals.html>



The diagonals of an isosceles trapezoid are Congruent.

The diagonals of a kite are perpendicular.

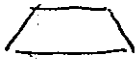


On The back draw and label all parts to the following:
(include diagonals and right angles)

① Rectangle

② Square

Under the letters "a" through "g" in the following table, answer "yes" or "no" to the following questions for each of the given quadrilaterals:



	a	b	c	d	e	f	g
Trapezoid	NO	NO	NO	NO	NO	NO	NO
Square	yes	yes	yes	yes	yes	yes	yes
Rhombus	yes	yes	NO	yes	yes	NO	
Rectangle							
Parallelogram							

- a. Are opposite sides congruent and parallel?
- b. Are opposite angles congruent?
- c. Are the diagonals always congruent?
- d. Do the diagonals bisect each other?
- e. Are the diagonals always perpendicular to each other?
- f. Are all angles congruent?
- g. Are any two consecutive sides always congruent