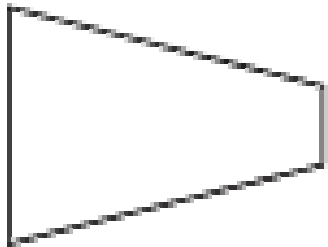


# Exploring and Classifying Polygons

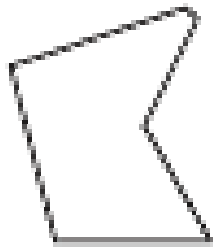
Lesson 8-5

# Polygons

A polygon is a closed figure whose sides are made up of straight line segments that do not cross.



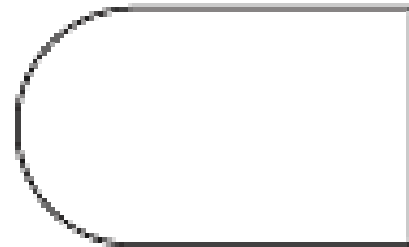
**polygon**



**polygon**



**not a  
polygon**



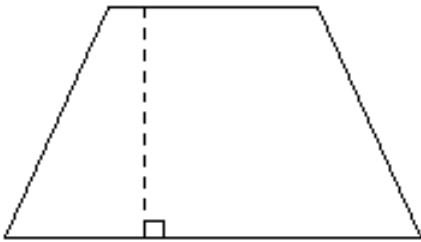
**not a  
polygon**

# Naming Polygons

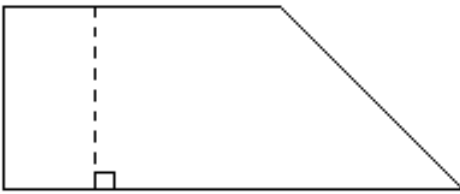
Polygon	Number of Sides
Triangle	3
Quadrilateral	4
Pentagon	5
Hexagon	6
Octagon	8
Decagon	10

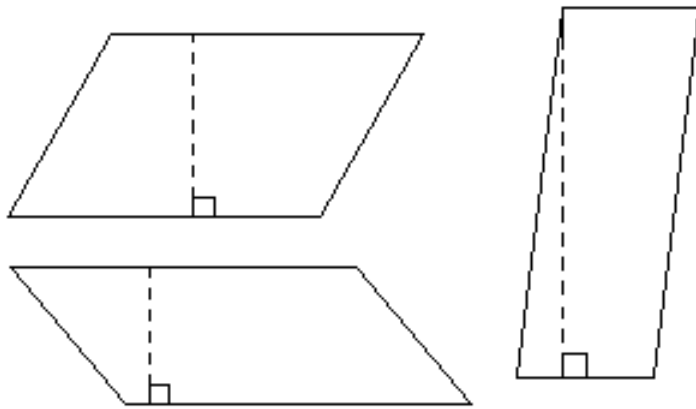
# Classifying Quadrilaterals

Quadrilaterals are four-sided polygons.



**Trapezoids** have exactly one pair of parallel lines.





**Parallelograms** have two pairs of parallel lines.

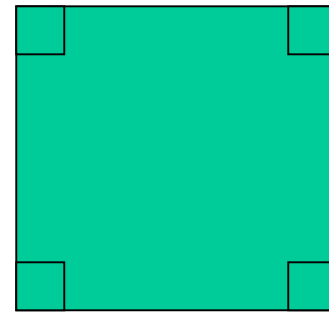
There are three special kinds of parallelograms:



A **rectangle** has four right angles.

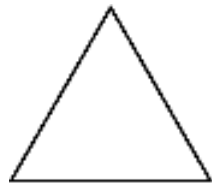


A **rhombus** has four congruent sides.



A **square** has four right angles and four congruent sides.

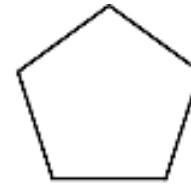
# Homework Time



Triangle  
3 sided polygon



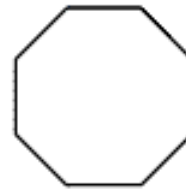
Quadrilateral  
4 sided polygon



Pentagon  
5 sided polygon



Hexagon  
6 sided polygon



Octagon  
8 sided polygon