

Which quadrilaterals have what properties?

	Parallelogram	Trapezoid	Isosceles Trapezoid	Rectangle	Square	Rhombus	Kite
1) Exactly one pair of parallel sides		X	X				
2) Two pair of parallel sides	X			X	X	X	
3) Both pair opposite sides congruent	X			X	X	X	
4) All sides congruent					X	X	
5) Two or more sides congruent	X		X	X	X	X	X
6) Two pairs of sides congruent	X			X	X	X	X
7) All right angles				X	X		
8) All angles congruent				X	X		
9) Opposite angles congruent	X			X	X	X	
10) Opposite angle supplementary	X		X	X	X	X	
11) All adjacent angles supplementary	X			X	X	X	
12) Some adjacent angles supplementary		X	X				
13) Diagonals are congruent			X	X	X		
14) Only one diagonal bisects the other							X
15) Both diagonals bisect each other	X			X	X	X	
16) Only one diagonal bisects the angles							X
17) Both diagonals bisect the angles					X	X	
18) Diagonals are perpendicular					X	X	X

Draw diagonals, measure using protractors, distance formula, ^{ruler} slope, etc.

Terms to discuss: opposite sides, opposite angles, opposite angles supplementary, adjacent angles supplementary, diagonals, diagonals bisect angles, diagonals bisect diagonals, diagonals are \perp