

1. isosceles trapezoid

2. 1) diagonals are perpendicular  
2) 4 congruent sides  
3) each diagonal bisects a pair of opp. angles

	Parallelogram	Rectangle	Rhombus	Square	Kite	Trapezoid
3. All sides are $\cong$			X	X		
4. Both pairs opp. sides $\cong$	X	X	X	X		
5. Both pairs opp. sides $\parallel$	X	X	X	X		
6. Exactly 1 pair opp $\parallel$						X
7. All $\angle$ 's are $\cong$		X		X		
8. Exactly 1 pair opp $\angle$ 's $\cong$					X	
9. Diagonals are $\perp$			X	X	X	
10. Diagonals are $\cong$		X		X		
11. Diagonals bisect each other	X	X	X	X		

12. having  $\angle B$  and  $\angle C$  be supplements does not guarantee it is a parallelogram  
 $\angle B \neq \angle D$  so ABCD is not a parallelogram

13. A

14. Rectangle, four right angles

15. trapezoid, there is one pair of parallel sides

16. Kite, 2 consecutive pairs of congruent sides

18. No, it could be a kite

19.

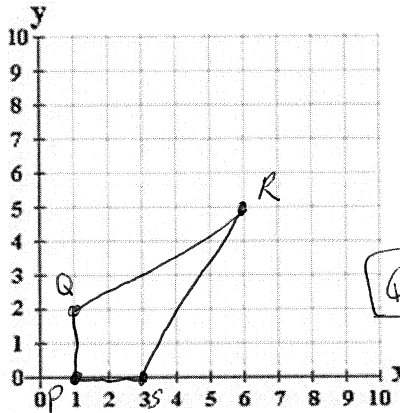
No,  $m\angle F = 109^\circ$  which  
is not equal to  $m\angle E$

$$360 = 111 + 70 + 70 + m\angle F$$

20.

No, it could be a  
rectangle

21.



$$QR = \sqrt{(1-6)^2 + (2-5)^2}$$

$$= \sqrt{(-5)^2 + (-3)^2}$$

$$= \sqrt{25 + 9}$$

$$QR = \sqrt{34}$$

$$SR = \sqrt{(6-3)^2 + (5-0)^2}$$

$$= \sqrt{3^2 + 5^2}$$

$$= \sqrt{9 + 25}$$

$$SR = \sqrt{34}$$

kite  
2 consecutive  
 $\cong$  sides

26.

$\overline{AB} \cong \overline{BC}$ ; all 4 sides  
~~and 4 angles~~ are congruent

4 right angles

27.

$$m\angle C = 120^\circ$$

$$m\angle B = 60^\circ$$

then  $\overline{AB} \parallel \overline{DC}$

and base  $\angle$ 's are  $\cong$

28.

$$\overline{DV} \cong \overline{BV}$$

then the diagonals  
bisect each other