

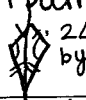
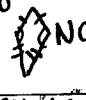
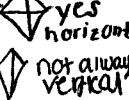
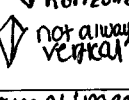

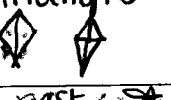
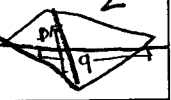
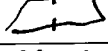
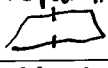
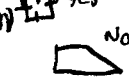
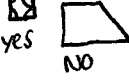
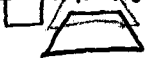
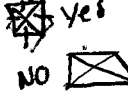
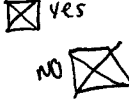
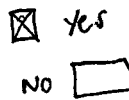
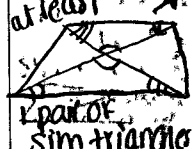
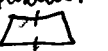
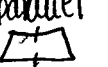
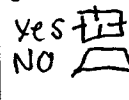
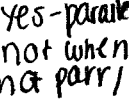
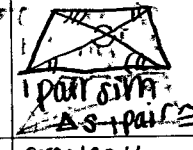
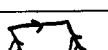
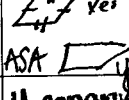
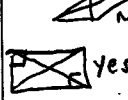
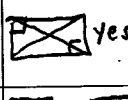
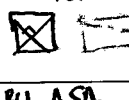
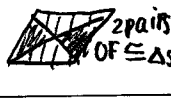
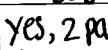
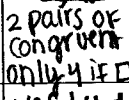

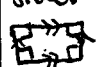
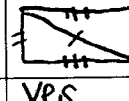

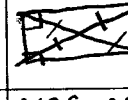
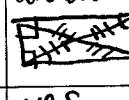
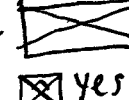
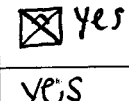
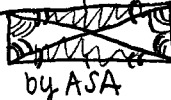

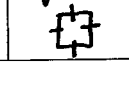






	SIDES		ANGLES		DIAGONALS			AREA	
	Parallel?	Congruent?	Congruent?	Relationship?	Congruent?	Bisecting?	Perpendicular?		Triangle Partition?
Kite 	sometimes 	yes 2 pairs of adjacent congruent sides by def.	Yes at least 1 pair  $2\Delta \cong$ by SSS	sometimes \angle 's add to 360 yes  NO	NO they are never congruent	sometimes  yes horizontal  not always vertical	yes 	two pairs of similar triangles 	$A = \frac{pq}{2}$ 
Trapezoid 	* yes by def bases are parallel 	sometimes  yes NO	sometimes  yes NO	yes; class are suppl.  2 pairs	sometimes  yes NO	sometimes  yes NO	sometimes  yes NO	at least 1 pair of sim triangles 	$A = \frac{(b_1 + b_2)h}{2}$
Isosceles Trapezoid 	yes by def at least 1 pair parallel 	non parallel sides are congruent	yes by def base \angle s always \cong	always add to 360 each side + 180 base \angle s \cong	always congruent	sometimes yes  NO	sometimes yes - parallel not when not parallel 	at least 1 pair sim triangles 	$A = \frac{1}{2}(a+b)h$ Δ by AAS
Parallelogram 	2 sets of parallel sides by def. yes	sets of parallel sides are congruent  yes ASA	2 sets of opposite \cong angles yes	adjacent \angle s are suppl.	sometimes  NO  yes	AAS diagonals are split into halves always	only when a square sometimes 	Creates 4 $45-45-90$ in \square  2 pairs of $\cong \Delta$ s	$A = bh$
Rhombus 	2 pairs of parallel sides by SSS	4 congruent by def	by ASA  2 pairs of congruent \angle s only 4 if \square	2 distinct pairs of $\cong \angle$ s adj. are suppl.	yes NO sometimes	they will always bisect because all 4 sides \cong	By ASA  yes	all 4 triangles \cong by SSS always	$A = \frac{d_1 d_2}{2}$
Rectangle 	yes, 2 pairs of parallel sides	yes by ASA two opposite pairs 	yes by def 	all 4 add to 360 and any pair is suppl.	by SAS diagonals are \cong 	by AAS diagonals are bisecting 	sometimes  NO  yes	by ASA 2 pairs of opp Δ s 	$A = bh$
Square 	yes always	yes 4 congruent by def 	yes, all angles 90° 	yes all are congruent and add to 360	yes since all sides \cong 	yes 	yes 	yes 4 $45-45-90$ triangles	$a = s^2$

*

hw *