QUADRILATERAL RELATIONSHIPS

Use these words in	this diagram. (1) Quadrilaterals			
Isosceles trapezoic Kites	ds (1) Quadr (a took s			
Parallelograms Quadrilaterals Rectangles Rhombuses	(2) Trapezoid (3) Parallelogram (4) Kite			
Squares				
Trapezoids	(5) Isoseles (6) Khombus (7) Rectangle			
,	(8) square			
Tell whether the statement is true always, sometimes, or never. If your answer is sometimes or never, provide a sketch of a situation in which the statement is not true.				
9. Aluays Ed	ach diagonal of a square divides the square into two isosceles triangles.			
	ach diagonal of a rectangle divides the rectangle into two isosceles riangles.			
11. Sometimes If	f two congruent isosceles triangles have a common side, then their other des from a rhombus.			
	f two congruent equilateral triangles have a common side, then their other des form a rhombus.	ž.		
13. Always Ed	ach diagonal of a rhombus divides the rhombus into two isosceles triangles.			
re	f two right triangles have a common hypotenuse, then their legs form a ectangle.			
15. Alway S If	f the diagonals of a quadrilateral are congruent, then the quadrilateral is a ectangle.			
16. Sometimes If	f the diagonals of a quadrilateral are perpendicular, then the quadrilateral a rhombus.			
	f each diagonal of a quadrilateral bisects a pair of opposite angles, then the adrilateral is a rhombus.			
Answer true or false.				
18 All squares are rhombi.				
19 F All rh	hombi are squares.			
20 All so	quares are rectangles.			
21 F _ All rectangles are squares.				
22 Some	e rectangles are squares.			

23	F	All trapezoids are parallelograms.	
24	F	All quadrilaterals are trapezoids.	
25	F	All parallelograms are trapezoids.	
26	F	All squares are trapezoids.	
27	F	All quadrilaterals are parallelograms.	
28	T	Any rhombus with one right angle is a square.	
29	T	All rectangles are parallelograms.	
30	1	Every rhombus is a trapezoid.	
31	F	No trapezoids has a pair of congruent sides.	
32	F	A parallelogram with four right angles is a square.	
33	T	A parallelogram with adjacent sides of equal measure is called a rhombus.	Augus
34	F	Opposite sides of all quadrilaterals are equal in length.	CANT SAILCE
35	T	Every parallelogram is a quadrilateral.	
36	7	Some parallelograms are not squares.	SOULT HOS
37	F	Every square is a trapezoid.	e hosoilà.
38	T	Some quadrilaterals are neither trapezoids nor parallelograms.	
39	T	No trapezoids are rectangles.	& poor A
40	T	Some rectangles are rhombuses.	June 1
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