	#9 #17
	Quadrilateral Worksheet Name Key
7	1. A quadrilateral is a figure with sides.
	2. Perpendicular means at a right angle or at a 90° degrees.
	3. Two types of quadrilaterals with right-angled vertices are rectangle and Equare.
	4. A parallelogram has two pairs of sides that are <u>parallel</u> and <u>congruent</u> , and opposite angles that are <u>congruent</u> .
	6. A rhombus is a special type of parallelogram because it has 4 equal sides.
	9. The quadrilaterals that have diagonals bisecting each other perpendicularly are rombus,
	10. A Square is always a rectangle, because a Square is a special type of rectangle that has four equal sides.
	11. A rectangle is not always a square, because a rectangle does not necessarily have sides that are all
مر	14. A <u>kite</u> is a quadrilateral that has two pairs of equal length sides and one pair of opposite equal angles.
	15. A trapezoid is a quadrilateral having one pair(s) of parallel sides.
	ALWAYS, SOMETIMES, or NEVER.
	1. A parallelogram is Always a quadrilateral. 2. A rectangle is never a trapezoid.
	3. A rhombus is <u>always</u> a parallelogram. 4. A square is always a quadrilateral.
	5. A rectangle is <u>Sometimes</u> a rhombus. (if it square) ce Never. 6. A rhombus is <u>sometimes</u> a square.
	7. A trapezoid is <u>some-time</u> s isosceles.
	8. A rectangle is <u>some times</u> a square. 9. A square is <u>always</u> a rectangle.
	10. A trapezoid is <u>never</u> a parallelogram. 11. A rectangle <u>always</u> has four right angles.
	12. A rhombus <u>sowetimes</u> has four right angles. (if it's a square) 13. A quadrilateral is <u>never</u> a pentagon.
	14. A parallelogram is <u>sometimes</u> equilateral. (Square + (nombus) 15. A trapezoid is <u>never</u> equilateral.

State whether the information given about quadrilateral SMTP is sufficient to prove that it is a parallelogram. yes, with AIA 2. $\angle SPX \cong \angle TMX$, $\angle TPX \cong \angle SMX$ 1. $\angle SPT \cong \angle SMT$ YO 3. $\overline{SM} \cong \overline{PT}, \overline{SP} \cong \overline{MT}$ yes 4. $\overline{SX} \cong \overline{XT}, \overline{SM} \cong \overline{PT}$ No 5. $\overline{PX} \cong \overline{MX}, \overline{SX} \cong \overline{TX}$ yes 6. $\overline{SP} \cong \overline{MT}, \overline{SP} \parallel \overline{MT}$ yes Classify each quadrilateral by its most precise name. trapezoid rectangle Decide whether the quadrilateral is a parallelogram. Explain your answer. 13. yes. opp sides No, Not enough yes, diagonals bisect 20. 18. 17. yes. Opp sides 14 Not enough 10.500 Equadrilaterals have four congruent angles. Answer the following exercises All, Some, or No. 50Me 1. ? rectangles are squares. 11.50% rectangles are rhombuses. 2. Pisosceles trapezoids are parallelograms. 12. Orapezoids are parallelograms. 3. _? trapezoids are isosceles trapezoids. 13. No trapezoids have both pairs of opposite sides parallel. 14. 50 trapezoids have a pair of congruent sides. 4. Thombuses are quadrilaterals. 15. At kites have two pairs of congruent sides. 5. Naites are parallelograms. 16. Hasquares are regular quadrilaterals. 6.504 Fhombuses are squares. 17. Miles have congruent diagonals. 7. No squares are triangles.

8.50% rectangles are regular quadrilaterals.

parallelograms.

9. Abl squares are quadrilaterals, rectangles, rhombuses, and

18. NO trapezoids have four congruent sides.

19. State barallelograms have four congruent angles.

20. All isosceles trapezoids have one pair of opposite congruent sides.