EXTRA PRACTICE
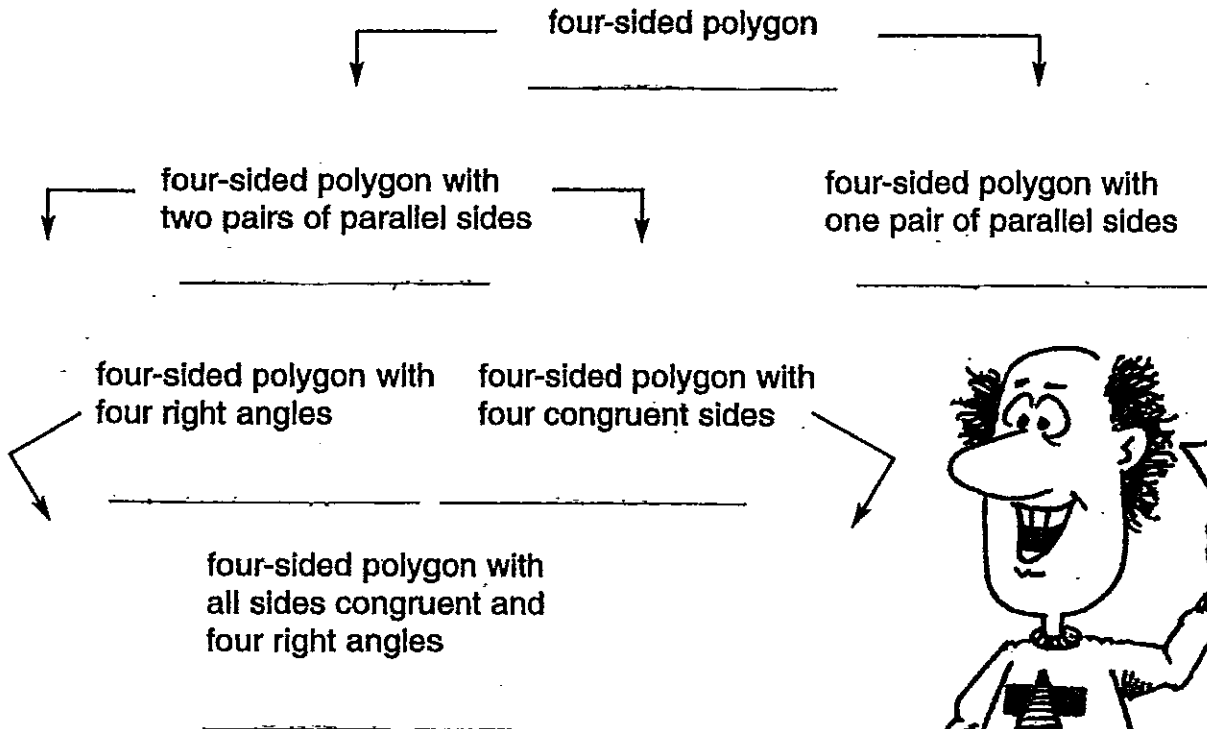**PRE-ALGEBRA**

10-6 Exploring Quadrilaterals

Place the following terms in the diagram. Use each term only once.

square, quadrilateral, rhombus, rectangle, parallelogram, trapezoid

four-sided polygon

_____

four-sided polygon with
two pairs of parallel sides

four-sided polygon with
one pair of parallel sides

_____

_____

four-sided polygon with
four right angles

four-sided polygon with
four congruent sides

_____   _____

four-sided polygon with
all sides congruent and
four right angles

_____

Use **all, some,** or **no** to complete each statement.

1. _____ squares are rectangles.

2. _____ parallelograms are rectangles.

3. _____ trapezoids are rectangles.

4. _____ parallelograms are rhombuses.

5. _____ rectangles are squares.

6. _____ squares are rhombuses.

7. _____ parallelograms are quadrilaterals.

8. _____ squares are parallelograms.

9. _____ rectangles are parallelograms.

10. _____ *trapezoids are parallelograms*

Quadrilateral Properties Grid

Check off all the properties that apply to each quadrilateral. This will help you distinguish the quadrilaterals from one another. After, right the correct formula for finding the area of each quadrilateral, without looking it up!

Properties of:	Parallelogram	Trapezoid	Rectangle	Rhombus	Square	Kite
Angles:						
At least one pair of opposite congruent angles						
Two pairs of opposite congruent angles						
All angles congruent						
All angles are right angles						
Sides:						
At least one pair of parallel sides						
Two pairs of parallel sides						
At least one pair of sides is perpendicular						
At least one pair of opposite congruent sides						
Two pairs of opposite congruent sides						
All sides congruent						
Diagonals:						
At least one diagonal bisects the other						
Both diagonals bisect each other						
Congruent diagonals						
Perpendicular diagonals						
Area Formula:						
Picture:						