Complete the table:

	Parallelogram	Rhombus	Rectangle	Square
1. The diagonals are perpendicular.		✓		✓
2. The figure has four right angles.			✓	✓
3. The opposite sides are congruent.	✓	✓	✓	✓
4. The diagonals are congruent.			✓	✓
5. The figure has four congruent sides.		✓		✓
6. The diagonals bisect each other.	✓	✓	✓	✓
7. The consecutive angles are supplementary.	✓	✓	✓	✓
8. Each diagonal bisects a pair of opposite angles.		✓		✓
9. The figure has exactly four lines of symmetry.				✓
10. The figure is a rectangle.			✓	✓

11. Draw a Venn diagram that shows the relationship between parallelograms, rhombi, squares, and rectangles. see next page

Determine whether the statements are always, sometimes, or never true.

S 12. The diagonals of a rectangle are perpendicular.

A 13. Consecutive sides of a rhombus are congruent.

S 14. A parallelogram has at least one right angle.

S 15. The diagonals of a parallelogram are congruent.

A 16. A square is a rectangle.

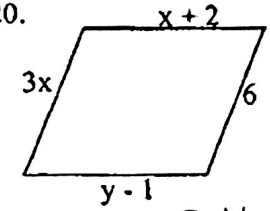
S 17. A rhombus is a square.

A 18. A rectangle is a parallelogram.

S 19. A rectangle is a rhombus.

What value of x and y will make the polygon a parallelogram?

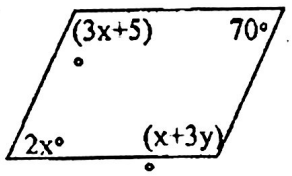
20.



$3x = 6$, $x = 2$

$x + 2 = y - 1$, $4 = y - 1$, $5 = y$

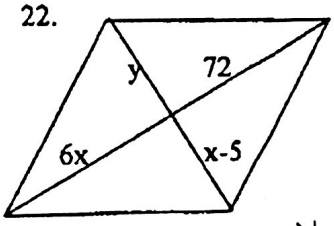
21.



$2x = 70$, $x = 35$

$3x + 5 = x + 3y$, $105 + 5 = 35 + 3y$, $110 = 35 + 3y$, $75 = 3y$, $25 = y$

22.



$6x = 72$, $x = 12$

$x - 5 = y$, $7 = y$

Venn Diagram