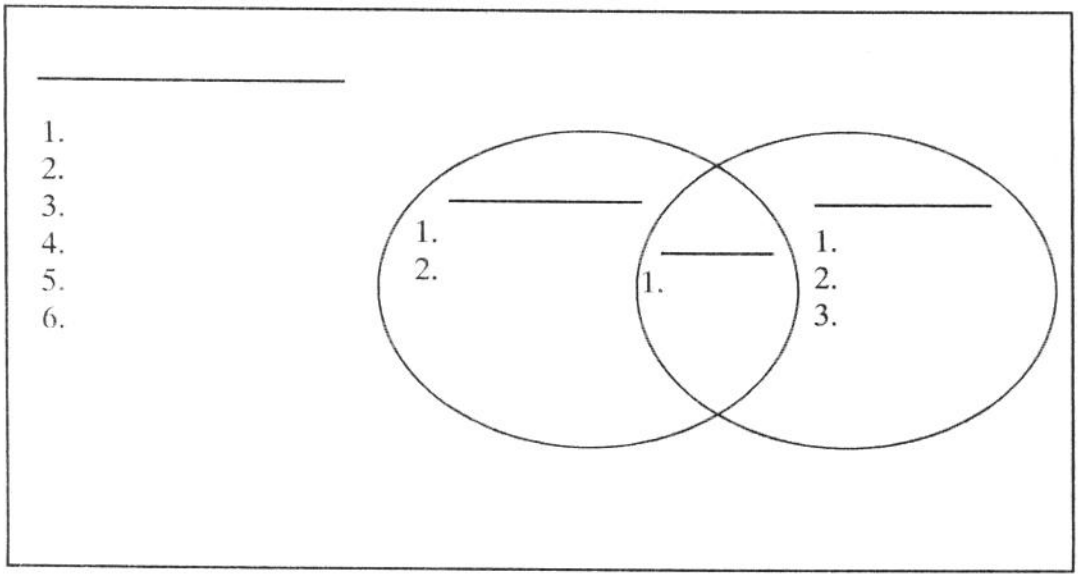
Geometry L
Review for Quadrilateral Test (4.2)

Name:_____
Date:_____ Period:_____

I. Using the word bank fill in the Venn diagram below.



Word Bank

Parallelogram
opp. sides ≅
Rectangle
opp. sides //
Rhombus
diagonals bisect each other
Square
4 ≅ sides
opp. angles ≅
4 right angles
diagonals ≅
diagonals ⊥
properties of all others
diagonals bisect corners
consecutive angles supp.

II. Tell weather each statement is Always, Sometimes, or Never.

_____1. A square is a parallelogram;

_____2. The diagonals of a parallelogram bisect each other.

_____3. A rectangle is a square.

_____4. A square is a rectangle.

_____5. The diagonals of a quadrilateral are ⊥.

_____6. A parallelogram is a rhombus.

_____7. Each diagonal of a rhombus bisects the angles of the rhombus.

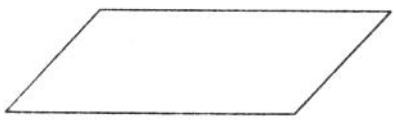
_____8. A square is a rhombus.

_____9. A rhombus is a square.

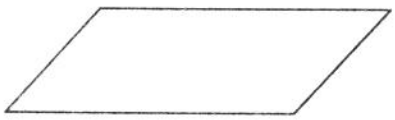
_____10. The diagonals of a rectangle are equal.

III. Draw a sketch of the figure described then answer the question.

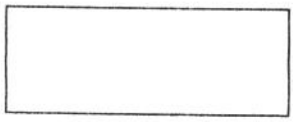
11. Parallelogram ABCD. If m∠A = 60, find the m∠B , m∠C and m∠D.



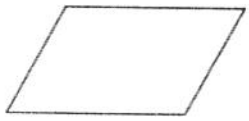
12. Parallelogram UVWX. If m∠U = 54 and m∠V = p + 82, find p and m∠X.



15. Rectangle CATS. Add diagonals CT and AS intersecting at M. If CA = 25 and AS = 28. Find MT and use Pythagoreans thm and find CS.



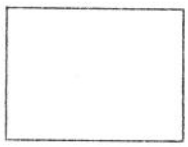
16. Rhombus BIRD. Add diagonal BR. If m∠IBR = 68 find m∠BRI.



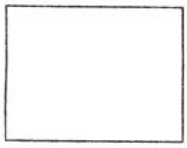
17. Rhombus ABCD. Add both diagonals intersecting at S. If m∠BAC = 81 and m∠ASD = 3x – 12 find x.

18. Rhombus ABCD. Add both diagonals intersecting at S. If AC = 24 and BD = 10, Find the perimeter of the rhombus. (hint: remember Pythagoreans thm.)

19. Square MNOP with diagonals intersecting at B. If MN = 14 find MO to the nearest hundredth. (hint: remember Pythagoreans thm.)

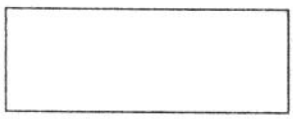


20. Square MNOP with diagonals intersecting at B. m∠PON = _____ and m∠POM = _____.



21. Rhombus ABCD. BC = 4x + 18 and CD = 2x + 37.

22. Rectangle ABCD with diagonals intersecting at M. If AC = 58, BD = 5x – 1 , BC = x = 2, find x.



23. Rectangle ABCD with diagonals intersecting at M. If m∠BDA = 27 and BD = 30, find the following:

m∠BDC = _____ , m∠ABD = _____ , CBD = _____ m∠CAD = _____ m∠BMC = _____

AC = , MB = , MC = , AM = , MD =