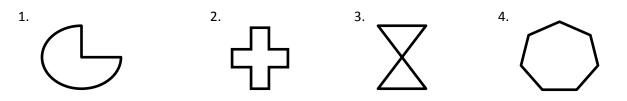
Geometry CP Chapter 6 Review

Name:	

Date: _____ Period: _

State whether the figure is a polygon; if it is a polygon, state whether the polygon is convex or concave. HINT: No curves, no gaps, and no overlaps!



Find the indicated measures of the polygon. HINT: For interior angles use (n – 2)180 and for exterior angles use 360°.

5. Find the **SUM** of the measures of the interior angles of a octagon.

6. Find the **SUM** of the measures of the interior angles of a pentagon.

7. Find the **SUM** of the measures of the exterior angles of a 24-gon.

8. Find the **SUM** of the measures of the exterior angles of a hexagon.

9. Find the measure of **EACH** interior angle of a regular decagon.

10. Find the measure of **EACH** interior angle of a regular nonagon.

11. Find the measure of **EACH** exterior angle of a heptagon.

12. Find the measure of **EACH** exterior angle of a 18-gon.

13. How many sides does a regular polygon have, if the measure of an interior angle is 108°?

14. How many sides does a regular polygon have, if the measure of an interior angle is 60°?

	Name:	
Parallelograms!	Date:	Period:
If a quadrilateral is a parallelogram then		
15. opposite sides are	and	
16. opposite angles are		
17. diagonals		
18. consecutive angles are		
ABCD is a parallelogram. m∡ABC = 40°, AB = 12, and C	O = 8.	A
19. m∡BAD =		
20. DC =		
21. m∡BCD =		
22. AO =		C

State whether each conditional statement is true. Write the converse of each conditional statement and state whether it is true.

23. If a parallelogram is a square, then it is a rhombus.

24. If a parallelogram is a square, then it is a rectangle.

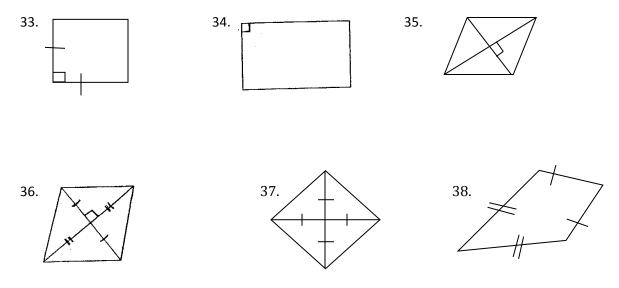
25. If a quadrilateral is a rhombus, then it is a parallelogram.

If a parallelogram is a rhombus then

- 26. all 4 sides are _____
- 27. diagonals are _____
- 28. diagonals bisect _____

		Name:	
If a parallelogram is a rectangle then		Date:	Period:
29. if it has 4	_angles		
30. diagonals are			
If a parallelogram is a square then			
31. if all 4 sides are			
32. if it has 4	_angles		

Identify each parallelogram (rhombus, rectangle, square or parallelogram). Use the BEST fit.



BUCK is a parallelogram with diagonals intersecting at O. Use the given information to identify the BEST type of parallelogram (parallelogram, rectangle, rhombus, or square) that the information describes.



Name: _____

Date: _____ Period: ____

Match the properties of a quadrilateral with all of the types of quadrilateral which have that property.

43. The diagonals are congruent.

44. Both pairs of opposite sides are congruent.	A. Parallelogram
45. Both pairs of opposite sides are parallel.	B. Rectangle
46. All angles are congruent.	C. Rhombus
47. All sides are congruent.	D. Square

48. Diagonals bisect the angles.

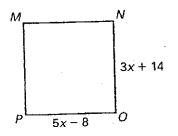
Name: _____

Date: _____ Period: ____

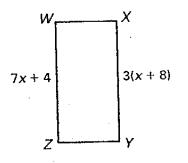
Algebra!

58. Solve for x.

MNOP is a square.



59. Solve for x.



61. Show that ABCD is a parallelogram by showing one pair of opposite sides CONGRUENT and PARALLEL.

Distance Formula: $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ Slope Formula: $\frac{y_2 - y_1}{x_2 - x_1}$ A(-1, 5) B(2, 7) C(0,0)