Math 1

Name:

KEY

Period: ___

Unit 9.4 Rotational Symmetry PRACTICE

Determine whether the figure has rotational symmetry. If so, describe the rotations that map the figure onto itself.



Determine whether the figure has rotational symmetry. If so, describe any rotations that map the figure onto itself. Then draw in any line symmetry lines.





No rotational symmetry



No rotational symmetry





No rotational symmetry

Draw a figure for the given description. If it is not possible, then write "not possible".

17. A triangle with exactly two lines of symmetry

19. A pentagon with exactly two lines of symmetry

21. An octagon with exactly two lines of symmetry

Not possible

Not possible

18. A quadrilateral with exactly two lines of symmetry



20. A hexagon with exactly two lines of symmetry



22. A quadrilateral with exactly four lines of symmetry



Determine whether the entire word has line symmetry and whether it has rotational symmetry. Identify all lines of symmetry and angels of rotation that map the entire word onto itself.

23.		Line of Symmetry?	YES or NO
		If YES, then draw in line(s) of symmetry	
		Rotational Symmetry?	YES or NO
		If YES, then describe the rotational symmetry:	
24.	[]	Line of Symmetry?	YES or NO
	qob	If YES, then draw in line(s) of symmetry	
		Rotational Symmetry?	YES or NO
		If YES, then describe the rotational symmetry: 180° about center	
25.		Line of Symmetry?	YES or NO
	WOW	If YES, then draw in line(s) of symmetry	
		Rotational Symmetry?	YES or NO
	•	If YES, then describe the rotational symmetry:	