$\qquad$

1. What is the minimum number of degrees for a regular decagon to rotate onto itself?
2. What is the minimum number of degrees for a regular octagon to rotate onto itself?
3. What is the minimum number of degrees for a regular hexagon to rotate onto itself?
4. What is the minimum number of degrees for a regular triangle to rotate onto itself?
5. What is the name of regular polygon whose minimum number of degrees to rotate onto itself is $90^{\circ}$ ?
(1) decagon
(2) quadrilateral
(3) pentagon
(4) 60-sided polygon
(5) I do not know. (Worth $\frac{1}{3}$ points)
6. What is the name of regular polygon whose minimum number of degrees to rotate onto itself is $90^{\circ}$ ?
(1) quadrilateral
(2) triangle
(3) decagon
(4) pentagon
(5) I do not know. (Worth $\frac{1}{3}$ points)
7. What is the name of regular polygon whose minimum number of degrees to rotate onto itself is $36^{\circ}$ ?
(1) decagon
(2) pentagon
(3) hexagon
(4) quadrilateral
(5) I do not know. (Worth $\frac{1}{3}$ points)
8. Given a regular hexagon, which of the following number of degrees will rotate the regular hexagon onto itself?
(1) $45^{\circ}$
(2) $120^{\circ}$
(3) $36^{\circ}$
(4) $40^{\circ}$
(5) I do not know. (Worth $\frac{1}{3}$ points)
9. What is the name of regular polygon whose minimum number of degrees to rotate onto itself is $120^{\circ}$ ?
(1) triangle
(2) hexagon
(3) 36-sided polygon
(4) octagon
(5) I do not know. (Worth $\frac{1}{3}$ points)
10. Given a regular quadrilateral, which of the following number of degrees will rotate the regular quadrilateral onto itself?
(1) $36^{\circ}$
(2) $60^{\circ}$
(3) $270^{\circ}$
(4) $45^{\circ}$
(5) I do not know. (Worth $\frac{1}{3}$ points)
11. Given a regular decagon, which of the following number of degrees will rotate the regular decagon onto itself?
(1) $45^{\circ}$
(2) $90^{\circ}$
(3) $40^{\circ}$
(4) $252^{\circ}$
(5) I do not know. (Worth $\frac{1}{3}$ points)
12. Given the diagram below of square $W O N C$, name all the lines of reflection that would map the square onto itself.

13. Given a regular triangle, which of the following number of degrees will rotate the regular triangle onto itself?
(1) $36^{\circ}$
(2) $90^{\circ}$
(3) $72^{\circ}$
(4) $240^{\circ}$
(5) I do not know. (Worth $\frac{1}{3}$ points)
14. Given the diagram below of square $C U Z Y$, name all the lines of reflection that would map the square onto itself.

15. Given the diagram below of square $F R O B$, name all the lines of reflection that would map the square onto itself.

16. What is the minimum number of degrees for a regular decagon to rotate onto itself?
17. Given the diagram below of square $A W K F$, name all the lines of reflection that would map the square onto itself.

18. What is the name of regular polygon whose minimum number of degrees to rotate onto itself is $120^{\circ}$ ?
(1) hexagon
(2) octagon
(3) decagon
(4) triangle
(5) I do not know. (Worth $\frac{1}{3}$ points)
19. Given a regular triangle, which of the following number of degrees will rotate the regular triangle onto itself?
(1) $72^{\circ}$
(2) $60^{\circ}$
(3) $240^{\circ}$
(4) $120^{\circ}$
(5) I do not know. (Worth $\frac{1}{3}$ points)
20. Given the diagram below of square $R F G P$, name all the lines of reflection that would map the square onto itself.

3.8 - Rotational and Reflective Symmetry - CWAnswers $\qquad$
21. $36^{\circ}$
22. $60^{\circ}$
23. $45^{\circ}$
24. $120^{\circ}$
25. Choice 2: quadrilateral
26. Choice 1: quadrilateral
27. Choice 1: decagon
28. Choice 1: triangle
29. Choice 2: $120^{\circ}$
30. Choice 3: $270^{\circ}$
31. Choice 4: $252^{\circ}$
32. Choice 4: $240^{\circ}$
33. $x=4, y=0, y=x-4$, and $y=-x+4$
34. $x=-2, y=-4, y=x-2$, and $y=-x-6$
35. $x=0, y=-4, y=x-4$, and $y=-x-4$
36. $x=-1, y=4, y=x+5$, and $y=-x+3$
37. $36^{\circ}$
38. Choice 4: triangle
39. Choice 3: $240^{\circ}$
40. $x=3, y=2, y=x-1$, and $y=-x+5$
