Go to the county map for Indiana at

 $http://ftp2.census.gov/geo/maps/general_ref/stco_outline/cen2k_pgsz/stco_IN.pdf$

and zoom in to answer these questions.

- 1. Name a county whose outline is not a polygon, telling how you know.
- 2. Name the polygon formed by the outline of Allen County.
- 3. Name the polygon formed by the outline of Cass County.
- 4. Name the polygon formed by the outline of Decatur County.
- 5. Name the polygon formed by the outline of Franklin County.
- 6. Name the polygon formed by the outline of Fulton County.
- 7. Name the polygon formed by the outline of Hancock County.
- 8. Name the polygon formed by the outline of Howard County.
- 9. Name the polygon formed by the outline of Miami County.
- 10. Name the polygon formed by the outline of Ripley County.
- 11. Name the polygon formed by the outline of Wells County.
- 12. Name the polygon formed by the outline of Whitley County.
- 13. If Lake County's northern and southern borders were straight, what kind of polygon would the outline be?
- 14. Is the outline of Adams County convex or concave?
- 15. Is the outline of Fulton County convex or concave?
- 16. Is the outline of Vanderburgh County convex or concave?
- 17. How many diagonals does Fayette County's outline have?
- 18. How many diagonals does Franklin County's outline have?
- 19. Find a county whose outline appears to be regular.
- 20. Find a county whose outline appears to be equiangular but not equilateral.

- 1. Any county that has a curved portion to its border will do. The curve prevents the shape from being a polygon.
- 2. hexagon
- 3. octagon
- 4. heptagon
- 5. pentagon
- 6. decagon
- 7. dodecagon
- 8. decagon
- 9. hexagon
- 10. heptagon
- 11. hexagon
- 12. decagon
- 13. It would be a quadrilateral.
- 14. convex
- 15. concave
- 16. concave
- 17. 9 diagonals
- 18. 5 diagonals
- 19. Hamilton, Orange, and Elkhart Counties (Delaware, Randolph, and Union are very close)
- 20. Any of the rectangular counties other than the squares above will do.