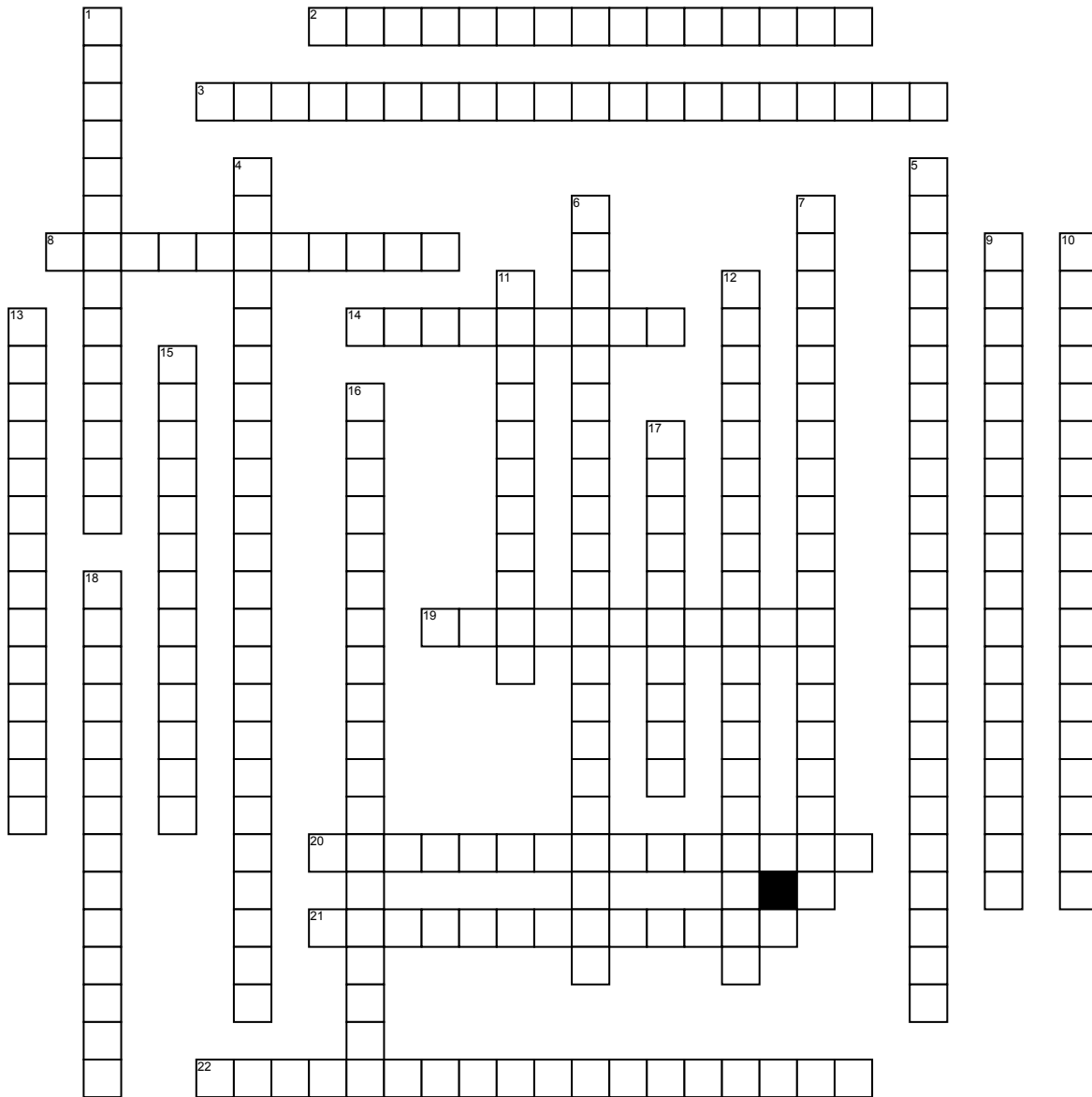Name: _____ Date: _____ Period: _____

Math vocabulary

Across

2. Similar Polygons - Two polygons whose corresponding angles are congruent and the lengths of the corresponding sides are proportional. Subject

3. The exterior angle theorem is Proposition 1.16 in Euclid's Elements, which states that the measure of an exterior angle of a triangle is greater than either of the measures of the remote interior angles.

8. The AA Criterion. When you have two triangles where one is a smaller version of the other, you are looking at two similar triangles.

14. identical in form; coinciding exactly when superimposed.

19. A scale factor is a number which scales, or multiplies, some quantity. ... The ratio of any two corresponding lengths in two similar geometric figures is also called a scale factor.

20. Congruent Angles have the same angle (in degrees or radians).

21. parallel lines are lines in a plane which do not meet; that is, two lines in a plane that do not intersect or touch each other at any point are said to be parallel.

22. Sides that have the same relative positions in geometric figures.

Down

1. each of the pairs of opposite angles made by two intersecting lines.

4. Alternate Exterior Angles are a pair of angles on the outer side of each of those two lines but on opposite sides of the transversal.

5. Alternate interior angles are formed when a transversal passes through two lines.

6. The same-side interior angle theorem states that when two lines that are parallel are intersected by a transversal line, the same-side interior angles that are formed are supplementary, or add up to 180 degrees.

7. either of two angles whose sum is 180°

9. Deductive reasoning is a logical process in which a conclusion is based on the concordance of multiple premises that are generally assumed to be true.

10. The Triangle Sum Theorem states that the three interior angles of any triangle add up to 180 degrees.

11. (of a line) intersecting a system of lines.

12. either of two angles whose sum is 90°.

13. the angle between a side of a rectilinear figure and an adjacent side extended outward.

15. the angle between adjacent sides of a rectilinear figure.

16. It is the interior angle of two sides of a triangle, such that those sides are not adjacent to the exterior angle.

17. same shape, different size

18. Adjacent angles are two angles that have a common vertex and a common side.