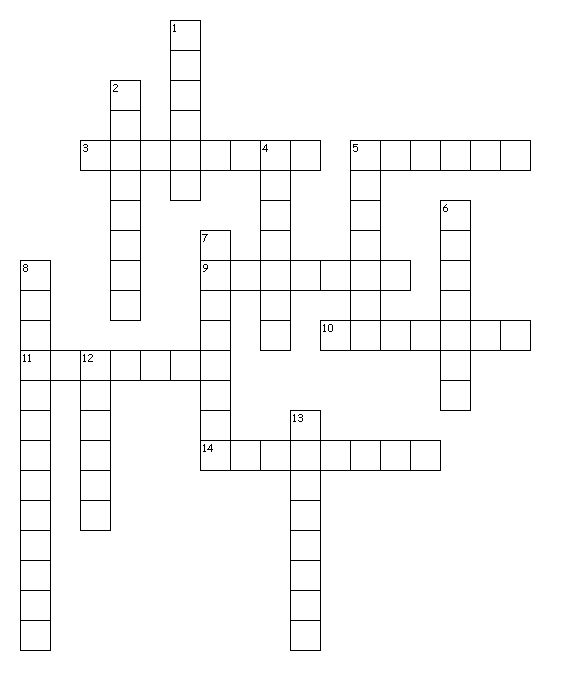
GEOMETRY NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

WS: Polygons Period \_\_\_\_\_



**Across**

3. Angles on the inside of a shape are called \_\_\_\_\_\_ angles.

5. A good polygon is a \_\_\_\_\_ polygon. It means the angles all bend inward, or

that there are no 2 points inside the shape that are connected by a

segment that goes outside the shape.

9. Means all the sides have the same measure and all the angles have the same

measure.

10. A Polygon with 6 sides.

11. A 10-gon is called a \_\_\_\_\_\_.

14. These are the angles in a polygon that always add to 360.

**Down**

1. The “corner” of a shape.

2. A 5 sided polygon

4. The shape a stop sign is. (8 sides)

5. A “bad” shape, the opposite of convex.

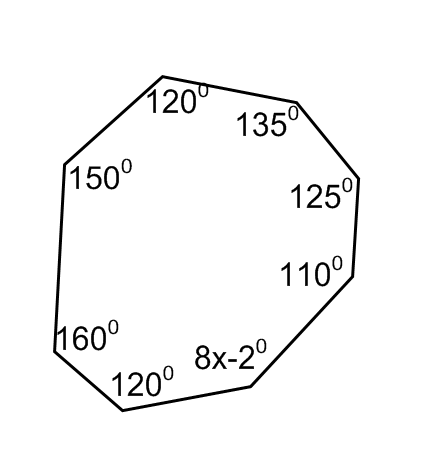
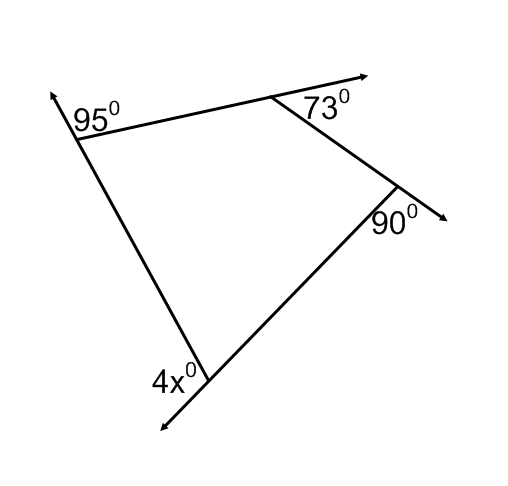
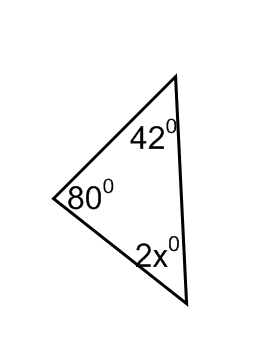
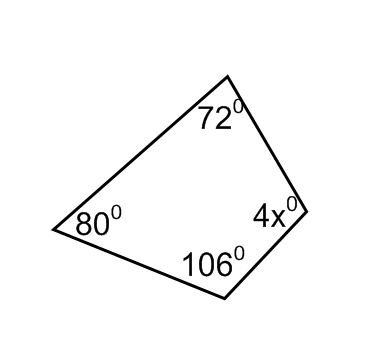
6. A “shape” that is closed and has no curves.

7. A 3 sided polygon

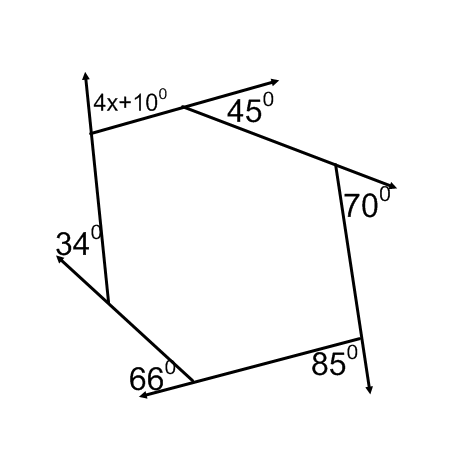
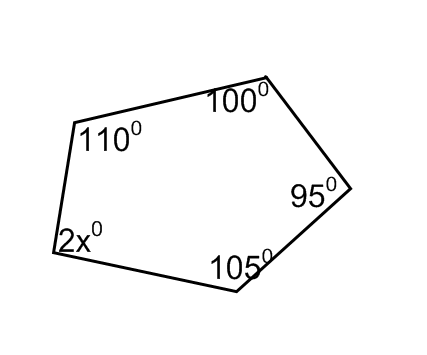
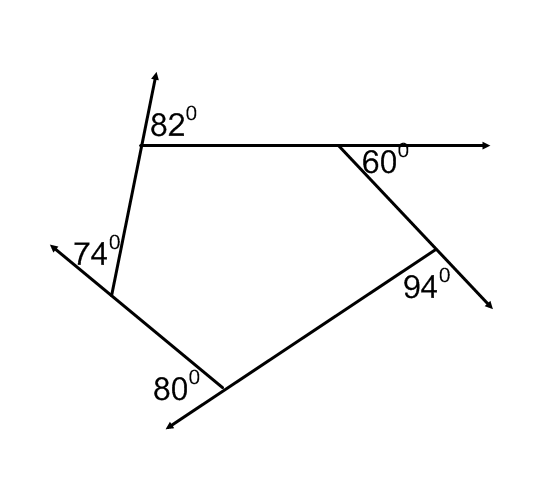
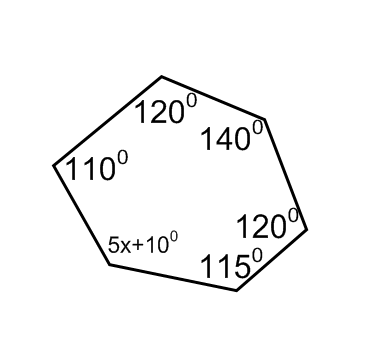
8. A polygon with 4 sides.

12. Means the shape is complete, that there is no “hole” in it.

13. The seven letter word, starting with “H” that represents a seven sided shape.

For each of the following polygons, use the interior / exterior angle theorems to find X

1. 2. 3. 4.



5. 6. 7. 8.

9. A regular polygon has ten sides (called a decagon). What is the measure of each interior angle?

10. A regular polygon has exterior angles measuring 50. How many sides does it have?

11. A regular polygon has 17 sides. What is the sum of the exterior angles?

12. A regular polygon has exterior angles measuring 180, how many sides does it have?

13. The interior angles of a regular 24-gon each measure \_\_\_\_\_\_\_\_\_\_.

Quadrilateral Pentagon Hexagon heptagon

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