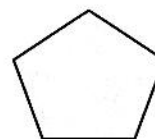


Smiley Face Math
Grade 3, Worksheet III

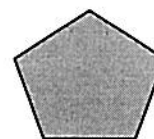
Name: _____



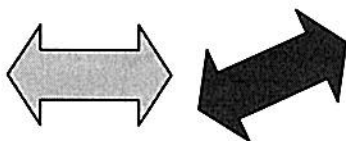
1. Draw one line to turn this pentagon into *two* polygons with different names.
What two polygons have you made?



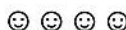
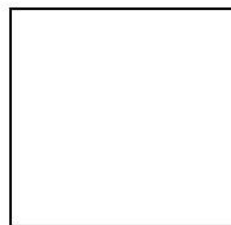
- Draw one line to turn this pentagon into 2 polygons with the same name.
What polygon have you made?



2. The two “double arrows” below are congruent. What does congruent mean?



In the box, draw a congruent shape for this figure.



3. 
1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th

- Will the 17th shark be swimming left or right? _____
- How about the shark after that? _____
- The 20th shark? _____
- The 25th shark? _____
- The 30th shark? _____
- Tell how to make this pattern of sharks:



4. The Tampa Bay Bucs had *five hundred sixteen thousand, one hundred eighty-eight* fans fill the stadium in 2008. Write that amount using numbers.

Their goal for 2010 was to have *ten thousand* more fans attend. Write the total number of fans they wanted in 2010, using digits instead of words. _____

- ☺ ☺ ☺ 5. The pictures below are all road signs. Tell how many sides and how many angles each has. Also tell if its angles are *acute*, *right*, or *obtuse*.



____ sides
____ angles
All angles are _____



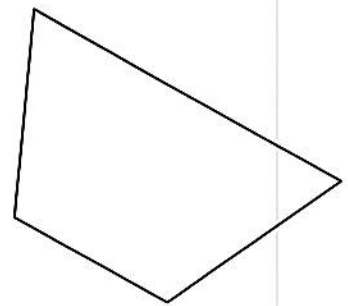
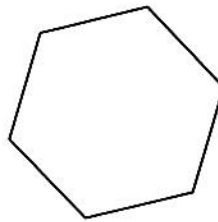
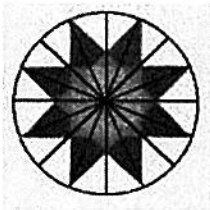
____ sides
____ angles
All angles are _____



____ sides
____ angles
All angles are _____

- ☺ ☺ ☺ 6. Each of the signs above is a polygon. How are they the same? How are they different?
Explain:

- ☺ ☺ 7. The star picture below shows a polygon with *line symmetry*. You could fold across any of the lines and the two pieces would be exactly alike. In the two polygons below, draw at least one *line of symmetry* in each figure.



- ☺ 8. The piece of paper you are writing on has *line symmetry* because there are two lines you can fold on so the sides match up. Draw those two lines, and then measure their length in inches.

Answer: The two *lines of symmetry* for this paper are _____ inches long and _____ inches long.