

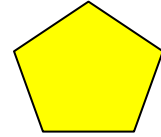
**Smiley Face Math  
Grade 3, Worksheet III**

Name: \_\_\_\_\_



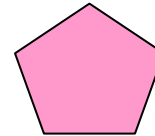
1. Draw one line to turn this pentagon into *two* polygons with different names.  
What two polygons have you made?

\_\_\_\_\_

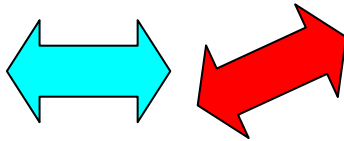


Draw one line to turn this pentagon into 2 polygons with the same name.  
What polygon have you made?

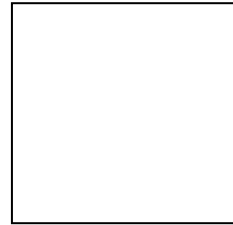
\_\_\_\_\_



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



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



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

- Will the 17<sup>th</sup> shark be swimming left or right? \_\_\_\_\_
- How about the shark after that? \_\_\_\_\_
- The 20<sup>th</sup> shark? \_\_\_\_\_
- The 25<sup>th</sup> shark? \_\_\_\_\_
- The 30<sup>th</sup> 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 \_\_\_\_\_



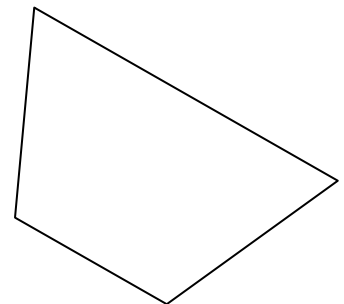
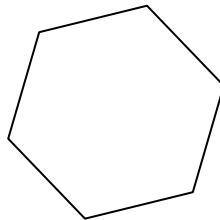
\_\_\_ sides  
 \_\_\_ angles  
 All angles are \_\_\_\_\_



\_\_\_ 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.