

NAME _____

DATE _____

Student Worksheet for Regularguys

A regular polygon is a polygon _____
_____.

When I look at Mr. Hexagon and Mr. Pentagon I believe that (circle your answer)

- a. Angle H is bigger than angle P.
- b. Angle P is bigger than angle H.
- c. Angle H is equal to angle P.
- d. It is impossible to determine.

Explain your choice.

How many triangles are there inside of the hexagon? _____

How many triangles are there inside the pentagon? _____

What is the degree measure of the interior angles of one triangle? _____° (degrees)

If you added all of the angles in the triangles in the hexagon would the total be the same as the total of the interior angles of the hexagon? Circle YES or NO.

If you added all of the angles in the triangles in the pentagon would the total be the same as the total of the interior angles of the pentagon? Circle YES or NO.

For the hexagon $4 \times 180^\circ =$ _____° If the total measure of the angles is divided by the number of angles (6), what would be the size of one angle? _____°

For the pentagon $3 \times 180^\circ =$ _____° If the total measure of the angles is divided by the number of angles (5), what would be the size of one angle? _____°

Would you like to change your answer to the question at the beginning of this worksheet? Circle YES or NO.

If you answered YES, circle your new answer here. a b c d

Explain why or why not you changed your mind.
