

Geo: POLYGON WRAP-UP

Three day weekend is coming soon, Chitluns!

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

a.) All triangles' interior angles sum to: \_\_\_\_\_

b.) The number of triangles a polygon contains is always \_\_\_\_\_ less than the number of angles it contains.

c.) The Interior Polygon Angle Sum formula is: \_\_\_\_\_

What's the Interior angle sum for d.) Octagon

e.) 13-gon

f.) 20-gon

d.) Explain why the above formula works \_\_\_\_\_

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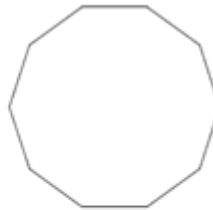
e.) The EXTERIOR Polygon Angle sum is \_\_\_\_\_ for \_\_\_\_\_.

**Find the interior angle sum for each polygon. Round your answer to the nearest tenth if necessary.**

1)



2)



3)



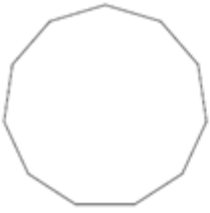
4)



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**Directions:** Find the Measure of One Interior and One Exterior angle for each Regular Polygon.

5)



7) regular quadrilateral

9) regular dodecagon

6)



8) regular 18-gon

10) regular 15-gon

**Directions:** Use your knowledge of Angle Sums to find the missing variable in each polygon below.

