Geometry

Unit 6.1 – Angles of Polygons I Can Sheet

Standards: QP.3
I can…
- Determine the number of diagonals in polygons
- Calculate the total degree measures in various polygons (and explain where the formula came from)
- State the total of all exterior angles in a polygon, and use this to solve.
- Calculate the number of sides based on a given set of information

Items in bold should be turned in to me or placed in your binder.

_____**investigation activity (before notes)**

_____**video notes**

_____**book assignment**

_____extra video

_____extra ws
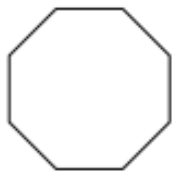
_____practice mc

_____**mastery check**

Practice mc:

Fill in the blanks. Show work.

1.

Sum of Interior ∠'s: _____
One Interior ∠: _____
Sum of Exterior ∠'s: _____
One Exterior ∠: _____

Geometry

2. Regular nonagon.

Sum of Interior ∠'s: _____
One Interior ∠: _____
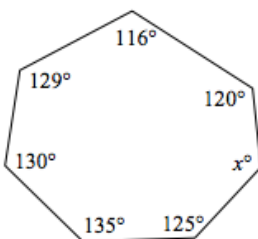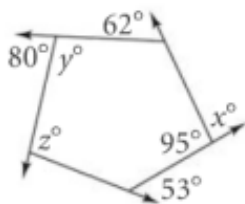Sum of Exterior ∠'s: _____
One Exterior ∠: _____

Solve for the missing angle(s).

3.

116°
129°
120°
130°
$x°$
135° 125°

4.

62°
80°/$y°$
$z°$
95° \$x°$
53°

5. If the sum of the interior angles of a regular polygon is 900 degrees, find the number of sides.

6. If the measure of one interior angle of a regular polygon is 144 degrees, find the number of sides.

Solve for x and y.

7.

$(10y - 6)°$
$(7x)°$
$(3x)°$
$(6x + 6)°$ $(4x + 2y)°$