## Equal Angles: Classwork

1. Find the interior angle sum of each of the following polygons. Show your work.



d. 23-sided polygon
2. Suppose each of the polygons in \#1 is a regular polygon. Find the measure of one interior angle for each of the polygons (round to the nearest tenth if necessary). Show your work.
a.
b.
c.
d.
3. On your POD paper, make a Statements/Reasons table and list how you determined each unknown angle.

Find the missing angle measures if $m \angle c=88^{\circ}$ and $m \angle g=110^{\circ}$.

4. Calculate each unknown angle measure without using a protractor.





## Equal Angles: Homework

7. Calculate each unknown angle measure without using a protractor.

8. Find the interior angle sum of each of the following polygons. Show your work.

b. 20-sided polygon
c. 35-sided polygon
9. Suppose each of the polygons in \#8 are regular polygons. Find the measure of one interior angle for each of the polygons (round to the nearest tenth if necessary). Show your work.
a.
b.
c.
