Group directions for mini posters.

LEFT SIDE

1. Write the name of the shape you have. If you are unsure, look at the chart in the front of the room to find the name of your shape based on the number of sides.
2. Write the number of sides.
3. Find the cutout sheet that matches the polygon on your poster.
4. Choose a color. Use this color to mark all interior angles for the polygon on the poster and the polygon on the cutout sheet.
5. Choose a different color. Use this color to mark all exterior angles for the polygon on the poster and the polygon on the cutout sheet.
6. Write the number of linear pairs formed by the angles you have marked.
7. CAREFULLY cut the exterior angles out of the cutout sheet and place the vertices of the angles on the dot under the diagram by where it says "exterior angles" on the poster sheet. Arrange the angles so that there is no overlap, so that sides of neighboring angles are touching, and so that the vertices stay on the point. When you have arranged the exterior angles, tape or glue them to your paper.
8. Use what you did in the last step to determine the sum of the exterior angles of your polygon. Write the sum of the exterior angles on your poster paper.
9. Find the sum of the interior angles by using the sum of the exterior angles and the total degrees from all of the linear pairs.

RIGHT SIDE

1. Write the number of sides for the polygon.
2. Write the number of interior angles for the polygon.
3. Draw all possible diagonals (segments from vertex to vertex through the interior of the polygon) from the vertex highlighted with a dot.
4. Write the number of triangles formed in the polygon.
5. Circle "do" or "do not" for the statement about triangle & polygon angles
6. Use your answer for #5 and the fact that the sum of the angles in a triangle is 180° to determine the sum of the angles in the polygon.