**Shapes and Designs Investigation 2**

**Important Information**

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| Can I find the sum of the angles in a regular polygon? | To find the sum of the angles (S) in a regular polygon use the formula S = (n-2)180; where n is the number of sides.  |
| Can I determine the measure of one interior angle in a regular polygon? | To find the measure of one interior angle (A) in a regular polygon you use the formula A = $\frac{S}{n}=\frac{Sum of interior angles}{Number of sides}$ |
| Can a given regular polygon tile a floor with its self or other polygons? | When polygons meet around a single vertex the angles must add to exactly 360° |
| Can you find the exterior angles of a polygon? | Exterior Angles = 180° - interior angle |
| Do you know the sum of the exterior angles of any polygon? | The sum of the exterior angles of any polygon is always 360° |
| Can you find the missing angle measure of a triangle when two measures are given?  | The sum of the interior angles in any triangle is 180°, so to find the missing angle measure simply subtract the given angles from 180°. |