**Angles in Polygons Homework**

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| **Key Words****Learn the spellings and meanings!**polygon, regular, interior, exteriorquadrilateral, pentagon, hexagon, heptagon, octagon, nonagon, decagon, dodecagon | **Research**Find out the difference between a concave and convex polygon. What’s a complex polygon? | **Memory**Memorise these facts:1. Interior and exterior angles sum to 180o
2. There are n-2 triangles in an n-sided polygon
3. 360 ÷ n gives you the size of an exterior angle in an n-sided polygon
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| **Skills**

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| Find the size of one interior angle in each of the following regular polygons. Show your methods. |
| 1. Pentagon (5 sides)
2. Decagon (10 sides)
3. Pentadecagon (15 sides)
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 | **Stretch**1. Each of the interior angles of a regular polygon is 150°. How many sides does the polygon have?
2. The diagram shows a regular hexagon and a regular octagon. Calculate the size of the angle marked $x.$

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