

|  |  | Number of Sides $=360 \div$ Ext |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Calculate the sum of the interior angles of the following shape. | Calculate the size of an interior angle of a regular hexagon. $\begin{aligned} & \text { Exterior }=360 \div 6=60^{\circ} \\ & \text { Interior }=180-60=120^{\circ} \end{aligned}$ |  | iagram shows th late the size of |  <br> ree regular polyg gle $x$. |  |
| Work out the value of the angle $x$. | Each interior angle of a regular polygon is $140^{\circ}$. Work out the number of sides of the regular polygon. |  |  |  |  |
|  |  |  | 60 $-4=$ | $60 \div 5=7$ | $30 \div 10=$ |
|  |  |  | $180-90=$ | 0- | 80 |
|  | Exterior $=180-140=40^{\circ}$ <br> Number of Sides $=360 \div 40=9$ sides | Angles around a point add up to make 360 degrees. $\begin{gathered} 90+108+144=342 \\ 360-342=18^{\circ} \end{gathered}$ <br> So $x=18^{\circ}$ |  |  |  |
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