

### ANGLES IN POLYGONS

- 1) What is the sum of all the interior angles in:  
(a) any hexagon (b) any 7-sided polygon (c) any 10-sided polygon
- 2) What is the sum of all the exterior angles in:  
(a) any 7-sided polygon (b) any 10-sided polygon (c) any 17-sided polygon
- 3) Calculate the size of each exterior angle in:  
(a) a regular 9-sided polygon (b) a regular 40-sided polygon (c) a regular 18-gon
- 4) Calculate the size of each interior angle in:  
(a) a regular 12-sided polygon (b) a regular 15-gon (c) a regular 45-gon
- 5) (a) A regular polygon has exterior angles of  $18^\circ$ . How many sides has it?  
(b) A regular polygon has interior angles of  $168^\circ$ . How many sides has it?  
(c) A regular polygon has interior angles of  $135^\circ$ . How many sides has it?
- 6) If a pentagon has angles of  $x$ ,  $2x$ ,  $3x$ ,  $4x$  and  $5x$  find the value of  $x$ .

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