**Interior Angles in Regular Polygons**

Match the number of sides to the name of the polygon.

|  |  |
| --- | --- |
| Octagon |  |
| Pentagon |  |
| Heptagon |  |
| Hexagon |  |
| Decagon |  |
| Nonagon |  |

(a) Find the sum of the interior angles in a regular pentagon.

(b) Find the sum of the interior angles in a regular octagon.

(c) Find the sum of the interior angles in a regular decagon.

(d) Find the sum of the interior angles in a -sided regular polygon.

(a) The sum of the interior angles in a regular hexagon is . Find the size of one interior angle in a regular hexagon.

(b) Find the size of one interior angle in a regular nonagon.

(c) Find the size of one interior angle in a regular -sided polygon.

(d) Find the size of one interior angle in a regular -sided polygon.

(a) A regular polygon has interior angles which sum to . How many sides does the polygon have?

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