Polygons

Sum of Interior Angles of a Polygon = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- |
| Triangle |  |  |  |
| Quad |  |  |  |
| Pentagon |  |  | **Regular** Polygon means a polygon with all sides and angles congruent. |
| Hexagon |  |  |  |
| Heptagon | http://www.wpclipart.com/education/geometry/heptagon_7_sides.jpg |  |  |
| Octagon | http://www.learningpathway.com/image/octagon.jpg |  |  |
| Decagon | http://www.kidsmathgamesonline.com/images/pictures/shapes/decagon.jpg |  |  |
| Dodecagon | http://upload.wikimedia.org/wikipedia/commons/thumb/8/8d/Regular_dodecagon.svg/400px-Regular_dodecagon.svg.png |  |  |

1. The sum of the interior angles of a hexagon equals:
2. How many degrees are there in the sum of the interior angles of a nine sided polygon?
3. If the sum of the interior angles of a polygon equals 900, how many sides does the polygon have?
4. How many sides does a polygon have if the sum of its interior angles is 2160?
5. Find the measure of each interior angle of a regular decagon.
6. How many degrees are there in each interior angle of a hexagon?
7. If a regular polygon has 6 sides, how many degrees are there in any one of its angles?
8. Each interior angle of a regular polygon measures 162. How many sides does the polygon have?

1. How many sides does a regular polygon have if one of its interior angles measure 174?