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Shape with 5 sides and 5 angles

the word polygon is a combination of two Greek words: poly means many and gon means angle. together with its corners, a polygon also has sides and vertices. three means three, so the simplest polygon is called the triangle, because it has three corners. has also three sides and three vertices. a triangle is always coplanar, which is not true of many of the other polygons. a regular polygon is a polygon with all angles and all congruent sides, or equal. Here are some regular polygons. we can oate a formula to find the sum of the inner corners of any polygon. in this formula, letter n stands for the number of sides, or angles, which the polygon has. sum of angles = (n − 2)180° we ous the formula to find the sum of the inner corners of a triangle. replaced 3 for n. we find that the sum is 180 degrees. This is an important fact to remember. sum of angles = (n − 2)180° = (3 − 2)180° = (1)180° = 180° to find the sum of the inner corners of a quadrilateral, we can oate again the formula. this time, replace 4 for n. we find that the sum of the inner corners of a quadrilateral is 360 degrees. sum of angles = (n − 2)180° = (4 − 2)180° = (2)180° = 360 ° polygons can be separated into triangles by drawing all the diagonals that can be drawn from a single vertex. Let's try with the quadrilateral shown here. from the top to, we can draw only one diagonal, at the top of a quadrilateral can therefore be separated into two triangles. If you look back at the formula, you will see that n − 2 gives the number of triangles in the range, and that number is multiplied by 180, the sum of the measurements of all the internal corners in a triangle. see where the "n − 2?" gives us the number of triangles in the range. How many triangles do you think he's gonna have a five-sided polygon? Here's a pentagon, a five-sided polygon. from the top to we can draw two diagonals separating the pentagon into three triangles. we multiply180 timesfind the sum of all internal corners of a pentagon, which is 540 degrees. sum of angles = (n − 2)180° = (5 − 2)180° = (3)180° = 540° Related links: Polygonal definitions, polygon formulas (area, perimeter) and polygon names (tables and formulas) back up In geometry, students work with a lot of different shapes. One of the most important polygons to familiarize is the pentagon. 7 Things you can't know about the Pentagon All pentagons have five straight sides, but the sides should not be of equal length. A regular pentagon has five equal sides and five equal angles. In basic geometry, most problems will involve regular polygons. Each inner corner of a regular pentagon = 108 degrees. Each outside corner of a regular pentagon = 72 degrees. The sum of the inner corners of a regular pentagon = 540 degrees. Drawing diagonal lines between the dots of the pentagon will result in a perfect star or pentagram shape. If the five sides of a form are not connected or the shape has a curved side(s), it is not a pentagon. Types of Pentagon regular or equilateral: five equal sides and corners hang irregular: five unequal sides and unequal corners Pentago Convex: no internal angle can be greater than 180 degrees Concave Pentagon: it has an internal angle greater than 180 degrees that causes two sides of "sink in" as a "cave" Parts of one side the Pentagon: one of the five Vertex line segments: two sides meet at a point called vertex Diagonal: a line that connects two vertices that is not one of the five sides Internal Corner: an internal angle formed by two sides of the pentagon Outside angle: a corner outside the pentagon formed by two adjacent sides How to Calculate the Area of a Pentagon Start with one side and the apothem* Divide the pentagon into 5 triangles drawing 5 lines from the center of the pentagon Calculate the area of a triangle*** Multiply by 5 to find the total area *Apothem is thefrom the centrethe pentagon to one side, intersecting the side at a corner of 90th right. *Remember the formula for calculating the area of a triangle is 1/2 x base x pentagon height – a couple of fun facts because the pentagon is a pentagon: the headquarters of the U.S. defense department united in Washington, DC, is called pentagon. This massive concrete and steel building has a total area of almost 7 million square feet and 17.5 miles of corridors. at the beginning of World War II in 1941, the president roosevelt decided that a new building was necessary for the war department. the architect chose to exploit the properties of a symmetrical pentagon. thus shortening the distance people should walk from one office to another within this huge building compared to a traditional rectangular building. a circular building would also incorporate shorter walking distances, but the construction of a building with straight sides as a pentagon was much easier and faster. okra: next time you are eating okra fried or gumbo, take a look at a slice of okra. It's pentagon-shaped. Starfish: Almost all stellar fish have a radial symmetry five times or are pentagon-shaped. poetry: there is actually something known as pentagon poetry. musical pentagons: If you like the music of the 1980s, check the band of the pentagon of rich clare. for something different, the South Korean has a boy band called pentagon. as you can see, a pentagon is a very useful form. not only is it a often oated pentagon in the basic geometry, it is a useful form in architecture and is found throughout the natural world. which polygon has 5 sides? a polygon is a two-dimensional form, closed, made with straight sides. polygons also have the same number of sides as they have angles. answer and explanation: a five-sided polygon is called pentagon. pentagons also havecorners. The Pentagon can be regular or irregular. In a regular pentagon, all the... See the full answer below. To continue enjoying our site, we ask you to confirmidentity as human. Thank you very much for your cooperation. Two-dimensional shapes are flat. The perimeter of a 2D shape is the total distance around the outside of the shape. The area of a 2D form is the space within the form. Cite A geometric figure with three or more sides is called polygon or polyhedron. Here are the names for some polygons.3triangle, trigon4quadrilateral, tetragon5pentagon6hexagon7heptagon8octagon9nonagon, enneagon10decagon11hendecagon12dodecagon, duodecagon13triskaidecagon, tridecagon14tetrakaidecagon, tecagon15pentadecagon16 Come? Many angles? A polygon has many angles as it has the sides. For example, a triangle has 3 sides and 3 corners. A pentagon has 5 sides and 5 corners. An ottaadecagon has 18 sides and 18 corners! Find numbers and circumference and decimal equivalent formulas of common fractions