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# Area perimeter formula for all shapes

For a two-dimensional figure, perimeter refers to the boundary or path around a shape. On the other hand, the area of a two-dimensional figure is the space occupied within the surface of a shape. There are various types of shapes, but the common ones are square, rectangle, triangle, circle, etc. In this content, you will be able to know the perimeter and area of basic shapes. Let's start!

1. Rectangle (Image will be uploaded soon) A rectangle is a shape whose opposite sides are equal, and all the angles are right angles (90 degrees). Perimeter of rectangle =  $2(a + b)$  Area of rectangle =  $a \times b$  2. Square (Image will be uploaded soon) A square is a shape whose all four sides are equal, and all the angles are 90 degrees. Perimeter of square =  $4 \times a$  Area of square =  $a^2$  3. Circle (Image will be uploaded soon) A circle refers to a round shape that contains no edges or corners. Perimeter of circle =  $2\pi r$  (r = radius) Area of circle =  $\pi r^2$  [Note: Here the value of pi is either  $\frac{22}{7}$  or 3.14. You can use any one of them if not mentioned in the question.] 4. Triangle (Image will be uploaded soon) A triangle is a shape with three angles and three straight lines. Triangles can be classified into three kinds, such as: Perimeter of equilateral triangle =  $3a$  Area of equilateral triangle =  $\frac{1}{4} \times a^2 \times \sqrt{3}$  Perimeter of isosceles triangle =  $2s + b$  Area of isosceles triangle =  $\frac{1}{2} \times b \times h$  Perimeter of scalene triangle =  $a + b + c$  Area of scalene triangle =  $\frac{1}{2} \times b \times h$  5. Parallelogram (Image will be uploaded soon) This shape is a quadrilateral whose opposite sides are parallel. Perimeter of parallelogram =  $2(a + b)$  Area of parallelogram =  $b \times h$  6. Rhombus (Image will be uploaded soon) It is a parallelogram whose sides are equal. Area of rhombus =  $a \times h$  Perimeter of Rhombus =  $4 \times a$  7. Trapezoid This shape is a quadrilateral which has a minimum of 1 pair of parallel sides. Perimeter of trapezoid =  $a_1 + a_2 + b_1 + b_2$  Area of trapezoid =  $\frac{1}{2} \times (a_1 + a_2) \times h$  8. Regular N-Gon (Image will be uploaded soon) A regular polygon refers to a polygon whose number of sides and angles are the same. Area of regular n-gon =  $\frac{1}{2} \times n \times a \times s$  Perimeter of Regular n-gon =  $n \times s$  Here are some illustrative examples you can go through to understand the solving procedure. Ex 1. A rectangular field has length 12 m and breadth 10 m. What will be the area as well as the perimeter of that field? Solution: Length of the rectangular field = 12 m Breadth of the rectangular field = 10 m Therefore, area of the field =  $12 \times 10 = 120 \text{ m}^2$  And perimeter =  $2(12 + 10) = 44 \text{ m}$  Ex 2. Find the perimeter of circles whose radius are (i) 14cm (ii) 10m and (iii) 4km. Solution: According to the formula  $2\pi r = 2 \times 3.14 \times 14 \text{ cm} = 87.92 \text{ cm}$   $2\pi r = 2 \times 3.14 \times 10 \text{ m} = 62.8 \text{ m}$   $2\pi r = 2 \times 3.14 \times 4 \text{ km} = 25.12 \text{ km}$  Ex 3. If a rhombus has base and height 10 cm and 7 cm respectively, calculate its area. Solution: With regards to the question base = 6 cm Height = 8 cm Therefore, the area of rhombus =  $b \times h = 10 \times 7 \text{ cm}^2 = 70 \text{ cm}^2$  This material is mainly for students who belong to standard VII, so here only the basic formulas are provided. There are some other methods also to solve perimeter and area specifically for shapes like rhombus, triangles, etc. which you will learn in higher classes. If you want to refer to other solved examples of area and perimeter numerical, download the Vedantu app today. Perimeter is the path or boundary around a shape or can also be known as the outline of a shape. In geometry, there are different kinds of shapes that we encounter from 2D shapes to 3D shapes. Perimeter formulas cover the formulas of various 2-d shapes in geometry. Let's learn the various formulas of various shapes and solve a few examples as well. Meaning of Perimeter Formulas Perimeter formulas are used to find the distance around the 2-d shape by adding its side lengths. Perimeter is considered as the total length of the sides of different shapes. The perimeter formula can be determined if we know the dimensions of the shape. Every polygon has a different perimeter formula depending on the shape of the object. The image below shows all the formulas for different shapes in geometry. Perimeter Formula of Different Shapes The perimeter formula can be defined as the sum of the length of all the sides of any geometric shape. Various shapes in geometry have a perimeter formula depending on the shape and size. Let us look at the perimeter formulas of these shapes. Perimeter Formula of a Square As we already know, the perimeter is the length of the sides or boundary or path of a shape. The perimeter formula of a square can be calculated by adding the length of all its sides. The formula to calculate the perimeter of a square can be given as, Perimeter of a Square, (P) =  $4 \times \text{Side}$  units Perimeter Formula of a Rectangle The perimeter formula of a rectangle depends on the distance covered of the entire rectangle i.e. the boundary or covering all 4 sides of the rectangle.  $l + b + l + b = 2l + 2b = 2(l+b)$ . The perimeter of a rectangle is equal to twice the sum of its length and breadth. Hence, the formula for the perimeter of a rectangle is: Perimeter of a Rectangle, (P) =  $2(l + b)$  units Where, l is the length of the rectangle b is the breadth of the rectangle Perimeter Formula of a Triangle The perimeter formula of a triangle can be calculated by adding all the sides, in this case, all the three sides of a triangle. There are different perimeter formulas used for different types of triangles. But the general formula used to find the perimeter of a triangle is: Perimeter of a Triangle = Sum of all three sides The perimeter formulas for different types of triangles are: Perimeter Formula of a Parallelogram The perimeter formula of a parallelogram is determined by the sum of all the sides that are equal to each other. However, the perimeter formula of a parallelogram can also be found if the sides of the object are not mentioned but the diagonals or an angle are mentioned. Therefore, the formula to calculate the perimeter of a parallelogram is: Perimeter of a Parallelogram (with sides),  $P = 2(a + b)$ , where a and b are the two adjacent sides Perimeter of a Parallelogram (with one side and diagonals),  $P = 2a + \sqrt{2x^2 + 2y^2 - 4a^2}$ , where a is one side and x and y are the diagonals Perimeter of a Parallelogram (with side, height, and angle),  $P = 2a + 2h / \sin \theta$ , where a is the side, h is the height, and  $\theta$  is the angle Perimeter Formula of a Circle The perimeter formula of a circle consists of two main components - 2 constants and one radius of the circle. The formula for the perimeter of a circle is the circumference of the circle and the formula to calculate the perimeter or circumference of a circle is: Perimeter of a Circle =  $2\pi r = \pi d$  Where, Perimeter Formula of a Rhombus The perimeter formula of a rhombus is calculated by adding the lengths of all the sides of the shape. There are two parameters in which the formula of a perimeter of a rhombus can be calculated - when the sides are given and when the angles are given. Hence, the formula for the perimeter of a rhombus is: Perimeter of a Rhombus (with sides),  $P = 4a$ , where a is the length of the sides Perimeter of a Rhombus (with angles),  $P = 2\sqrt{d_1^2 + d_2^2}$ , where  $d_1$  and  $d_2$  are the lengths of the diagonals Perimeter Formula of a Trapezoid The formula to calculate the perimeter of a trapezoid is by adding the lengths of all four sides of the object. The perimeter formula of a trapezoid makes sure it covers the complete boundary of a trapezoid. Hence, the formula to calculate the perimeter of a trapezoid is: Perimeter of a Trapezoid,  $P = \text{Sum of all sides} = a + b + c + d$ , where a, b, c, and d are the lengths of the sides Perimeter Formula of a Kite The perimeter formula of a kite is calculated by adding all the sides of a kite and the distance is calculated by adding the sides of each pair. Hence, the formula to calculate the perimeter of a kite is: Perimeter of a Kite,  $P = 2(a+b)$ , where a and b are the lengths of the two pairs of kites Perimeter Formula of Polygons As polygons are closed plane shapes, thus, the perimeter of the polygons also lies in a two-dimensional plane. The perimeter formula of a polygon can be calculated by measuring the total length of the polygon. The perimeter of polygons is calculated in two ways: with respect to regular polygons and irregular polygons. The formula to calculate the perimeter of a regular polygon is: Regular Polygons: Perimeter of a Hexagon =  $6 \times (\text{length of one side})$  Perimeter of a Pentagon =  $5 \times (\text{length of one side})$  Irregular Polygons: Perimeter of Irregular Polygons = Sum of all sides Have questions on basic mathematical concepts? Become a problem-solving champ using logic, not rules. Learn the why behind math with our certified experts Book a Free Trial Class Examples Using Perimeter Formula Example 1: Josie wants to add some lace as decoration to the borders of her tabletop sheet. The tabletop sheet is in the shape of a rectangle. The length of the tabletop sheet is 140 inches and the breadth is 95 inches. How long will be the lace needed? Solution: Given, length l = 140 in, breadth b = 95 in The length of the lace = Perimeter of the sheet. We know the Perimeter formula of a rectangle =  $2(l+b)$ . Applying the values of length and breadth in this formula we have Perimeter =  $2(140 + 95) = 2 \times 235 = 470$  inches. Therefore Josie will need 470 inches of lace. Example 2. Determine the length of the side of the equilateral triangle, if its perimeter is 30 units. Solution: Given, the perimeter of the equilateral triangle = 30 Let the length of the side of the equilateral triangle be a. a is calculated using the perimeter formula of an equilateral triangle.  $P = 3 \times a = 3 \times a = 30/3 \Rightarrow a = 10$  units Therefore, the length of the side of the equilateral triangle is 10 units. Example 3: If the perimeter of a square is 74 units, find its side. Solution: Given: Perimeter of square  $P = 74$  units Using the perimeter formula of a square,  $P = 4 \times \text{side}$  units  $74 = 4 \times \text{side}$  Side =  $74/4$  Side = 18.5 units Therefore, the side of a square is 18.5 units The perimeter formulas are used to determine the perimeter of different geometric shapes such as a square, a triangle, a rectangle, and so on. Each shape has a different formula to calculate the perimeter. The perimeter formula is the total length of the sides of all these shapes and it varies depending on the size and shape of the object. What are the Different Shapes the Perimeter Formulas Cover? There are different perimeter formulas for different shapes according to their shape and size. The different objects are: Square Rectangle Triangle Circle Kite Rhombus Parallelogram Trapezoid What is the Perimeter Formula of Polygons? The perimeter formula for polygons is divided into two parts - Regular Polygons and Irregular Polygons. The formula to calculate the perimeter of polygons is: The perimeter of regular polygon = (number of sides)  $\times$  (length of one side) The perimeter of irregular polygon = Sum of all sides What is the Perimeter Formula of the Different Types of Triangles? The perimeter formulas for different types of triangles are: Perimeter of a Scalene Triangle =  $a + b + c$ , where a, b, and c are the three different sides Perimeter of an Isosceles Triangle =  $2a + b$ , where a is the two sides of equal length and b is the third side Perimeter of an Equilateral Triangle =  $3 \times a$ , where a is the length of each side of the triangle Perimeter of a Right Triangle =  $p + b + h$  or  $p + b + \sqrt{p^2 + b^2}$ , where h is the hypotenuse of a right triangle, p is the perpendicular of a right triangle, and b is the base of a right triangle Perimeter of Right Isosceles Triangle =  $h + 2l$ , where h is the height and l is the length





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