



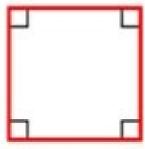
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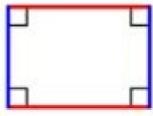
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## Quadrilaterals



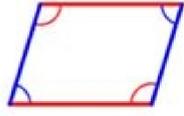
**square**

All sides equal  
All angles  $90^\circ$



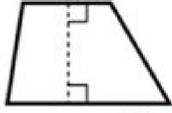
**rectangle**

Opposite sides equal  
All angles  $90^\circ$



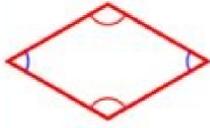
**parallelogram**

Opposite sides equal  
and parallel



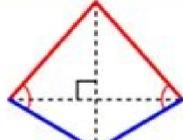
**trapezoid (US)  
trapezium (UK)**

Two sides parallel



**rhombus**

All sides equal  
Opposite sides parallel



**kite**

Adjacent pairs of  
sides equal

Worked Example 1

Find the perimeter of the rectangle.

Find the area of the rectangle.

Find the perimeter of the rectangle.

Find the area of the rectangle.

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Find the area of the rectangle.

Find the perimeter of the rectangle.

**SET**

Topic: Using parallel lines, and angle relationships to find missing values.

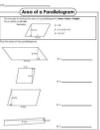
In each of the diagrams use the given information provided to find the missing lengths and angle measurements.

8. Line  $m \parallel n$  and  $o \parallel p$ , find the values of angles  $x, y$  and  $z$ . Also, find the lengths of  $a, b$  and  $c$ .

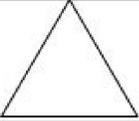
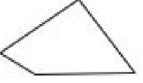
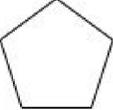
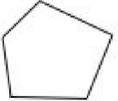
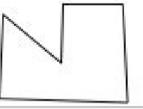
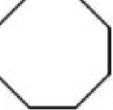
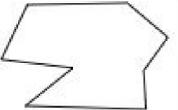
$x = 60^\circ$   
 $y = 60^\circ$   
 $z = 40^\circ$   
 $a = 12$   
 $b = 6$   
 $c = 12$

$\frac{a}{9} = \frac{a+4}{12}$   
 $12a = 9(a+4)$   
 $12a = 9a + 36$   
 $3a = 36$   
 $a = 12$

$\frac{20}{20} = \frac{c+6}{24}$   
 $20 \cdot 24 = (c+6) \cdot 20$   
 $480 = 20c + 120$   
 $360 = 20c$   
 $18 = c$



# Regular and Irregular Polygons

Name	Regular	Irregular	Number of Sides
<b>Triangle</b>			<b>3</b>
<b>Quadrilateral</b>			<b>4</b>
<b>Pentagon</b>			<b>5</b>
<b>Hexagon</b>			<b>6</b>
<b>Octagon</b>			<b>8</b>

If the length of the pool is 40 meters, then find its width using the properties of rectangle. Watch this video to know more: Parallelogram A parallelogram, as the name suggests, is a simple quadrilateral whose opposite sides are parallel. The properties of the diagonal of a rectangle are as follows: The two diagonals of a rectangle are equal. A rectangle does not have all four sides of equal measure. Why is a Rectangle not a Square? Here are the five types of quadrilaterals discussed in this article: Rectangle SquareParallelogram RhombusTrapezium Here is a video explaining the properties of quadrilaterals: Properties of the quadrilaterals – An overview The diagram given below shows a quadrilateral ABCD and the sum of its internal angles. A trapezium is a quadrilateral in which the following one property: Only one pair of opposite sides are parallel to each other Trapezium formulas - area and perimeter of a trapezium If the height of a trapezium is 'h' (as shown in the above diagram) then: Perimeter of the trapezium= Sum of lengths of all the sides = AB + BC + CD + DA Area of the trapezium =  $\frac{1}{2} \times (\text{Sum of lengths of parallel sides}) \times h = \frac{1}{2} \times (AB + CD) \times h$  These practice questions will help you solidify the properties of trapezium The below image also summarizes the properties of quadrilaterals Important quadrilateral formulas The below table summarizes the formulas on the area and perimeter of different types of quadrilaterals: Quadrilateral formulasRectangleSquareParallelogramRhombusTrapeziumArea =  $ba^2 \times h^2 \times d1 \times d2^2 \times (\text{Sum of parallel sides}) \times \text{height}$ Perimeter  $2 \times (l + b)$ Area  $2 \times (l + b)$ AreaSum of all the sides Further reading: To ace the GMAT a well-defined study plan is required. Area of a Rectangle:  $A = l \times w$ , where 'l' and 'w' are the length and width of the rectangle, respectively. It can be said that all squares are rectangles but all rectangles are not squares. What are the Various Types of Quadrilaterals other than Rectangles? The length of the diagonals can be obtained using the Pythagoras theorem. The interior angles of a rectangle are equal and measure  $90^\circ$ . So, the total length of the fence required= Sum of lengths of all the sides of the garden. It has a length of 10 meters and a width of 15 meters. The diagonals bisect each other, but not at right angles. \$ 300\$ 350\$ 450\$ 600\$ 675 Solution Step 1: Given Steve wants to paint one wall of his room. What are the Properties of the Diagonals of a Rectangle? The longer side of a rectangle is called its length and the shorter side is the width. Another name for rhombus is 'diamond' as it looks similar to the diamond suit in playing cards. Here are the four properties of a Rhombus: Opposite angles are equalAll sides are equal and, opposite sides are parallel to each otherDiagonals bisect each other perpendicularlySum of any two adjacent angles is  $180^\circ$  Rhombus formulas - area and perimeter of a rhombus If the side of a rhombus is a then, perimeter of a rhombus =  $4a$  If the length of two diagonals of the rhombus is  $d1$  and  $d2$  then the area of a rhombus =  $\frac{1}{2} \times d1 \times d2$  These practice questions will help you solidify the properties of rhombus Trapezium A trapezium (called Trapezoid in the US) is a quadrilateral that has only one pair of parallel sides. Formulas of a Rectangle There are three main formulas of a rectangle that need to be remembered. Substituting these values into the formula. The diagonals of a square bisect at  $90^\circ$ , but the diagonals of a rectangle do not bisect at  $90^\circ$ . Here are a few more articles on Math: Watch this GMAT geometry-free webinar where we discuss how to solve 700-level Data sufficiency and Problem questions in GMAT Quadrilaterals: If you are planning to take the GMAT, we can give you access to quality online content to prepare. The various types of quadrilaterals other than rectangles are squares, rhombus, kite, parallelogram, and a trapezoid. A rectangle is a two-dimensional figure with four sides, four vertices, and four angles. It's also a regular quadrilateral as both its sides and angles are equal. If the wall is 25 meters long and 18 meters wide, then what is the total cost to paint the wall?  $86 = 2(40 + w)$   $86 = 80 + 2w$   $6 = 2w$   $w = 3$  Therefore, the width of the rectangular pool is 3 meters. Save 60+ hours on GMAT preparation by following these three steps: Quadrilateral Practice Question Let's practice the application of properties of quadrilaterals on the following sample questions: GMAT Quadrilaterals Practice Question 1 Adam wants to build a fence around his rectangular garden of length 10 meters and width 15 meters. There are 5 types of quadrilaterals - Rectangle, Square, Parallelogram, Trapezium or Trapezoid, and Rhombus.Where can I find a few practice questions on quadrilaterals? Here are the four properties of a Parallelogram: Opposite angles are equalOpposite sides are equal and parallelDiagonals bisect each otherSum of any two adjacent angles is  $180^\circ$  Parallelogram formulas - area and perimeter of a parallelogram If the length of a parallelogram is 'l', breadth is 'b' and height is 'h' then: Perimeter of parallelogram =  $2 \times (l + b)$ Area of the parallelogram =  $l \times h$  These practice questions will help you solidify the properties of parallelogram Rhombus A rhombus is a quadrilateral whose all four sides are equal in length and opposite sides are parallel to each other. It can also be seen as a rectangle whose two adjacent sides are equal. Let us help you conquer the first step of the process i.e., taking the GMAT. Some of the real-life examples of a rectangle that we see in our daily life are kites, paintings, slabs, storage boxes, and so on. FAQs What are the different types of quadrilaterals? Start your journey of getting a Q50-51 on the GMAT with e-GMAT's AI-driven online preparation course. Area of the wall = length  $\times$  Breadth = 25 metres  $\times$  18 metres = 450 square metre Total cost to paint the wall =  $450 \times \$1.5 = \$675$  Hence, the correct answer is option E. The formula for the diagonal of a rectangle is derived from the Pythagoras theorem. Our xPERT not only curates the most optimized learning path but also tracks your improvement, ensuring that you get to your target Quant score quickly and reliably. The opposite sides of a rectangle are equal and parallel to each other. Since the sides of a rectangle are parallel, it is also called a parallelogram. Can you help George find its area? Perimeter =  $2 \times (10 + 15) = 50$  metres Hence, the required length of the fence is 30 meters. We are the most reviewed online GMAT Prep company with 2200+ reviews on GMATClub, as of 4th October 2021. The interior angle of a rectangle at each vertex measures  $90^\circ$ . Thus,  $\angle A + \angle B + \angle C + \angle D = 360^\circ$  Properties of quadrilateralsRectangleSquareParallelogramRhombusTrapeziumAll Sides are equalNoYesNoYesNoOpposite Sides are equalYesYesYesYesNoOpposite Sides are parallelYesYesYesYesAll angles are equalYesYesNoNoOpposite angles are equalYesYesYesNoSum of two adjacent angles is  $180^\circ$ YesYesYesNoBisect each otherYesYesYesYesNoBisect perpendicularlyNoYesNoYesNo Let's discuss each of these 5 quadrilaterals in detail: Here are questions which will teach you how to apply the properties of all 5 quadrilaterals you'll learn in this article. The wall is 25 meters long and 18 meters wide. Cost to paint the wall is \$1.5 per square meter. Step 2: To find the length required to build the fence around the entire garden. Just like a rectangle, a square has four angles of  $90^\circ$  each. A rhombus with right angles would become a square. The parallel sides are referred to as 'bases' and the other two sides are called 'legs' or lateral sides. Its diagonals are also equal and they bisect each other. go to slidego to slidego to slide Great learning in high school using simple cues Indulging in rote learning, you are likely to forget concepts. Moreover, the opposite angles in a parallelogram are equal and their diagonals bisect each other. With Cuemath, you will learn visually and be surprised by the outcomes. Thus, all the angles in a rectangle are equal ( $360^\circ/4 = 90^\circ$ ). Observe the following figure which shows the golden rectangle and its length and width. The diagonals bisect each other. Diagonal of Rectangle (d) =  $\sqrt{l^2 + w^2}$ , where 'l' is the length and 'w' is the width of the rectangle. They are related to the area of a rectangle, the perimeter of a rectangle, and the length of the diagonal. Since the garden is rectangular, the sum of the length of all the sides is nothing but the perimeter of the garden. Here are the three properties of a rectangle: All the angles of a rectangle are  $90^\circ$ Opposite sides of a rectangle are equal and ParallelDiagonals of a rectangle bisect each other Rectangle formula - area and perimeter of a rectangle If the length of the rectangle is L and breadth is B then, Area of a rectangle = Length  $\times$  Breadth or  $L \times B$ Perimeter of rectangle =  $2 \times (L + B)$  These practice questions will help you solidify the properties of rectangles Are you planning to enroll at top business schools? Golden Rectangle The golden rectangle is a rectangle whose sides are in the golden ratio, that is,  $(a + b)/a = a/b$ , where 'a' is the width and  $(a + b)$  is the length of the rectangle. It is a two-dimensional shape where the interior angles at each vertex are  $90^\circ$ . All rectangles are parallelograms but all parallelograms are not rectangles. The opposite sides of a rectangle are equal in length and are parallel to each other. What is the Difference Between a Square and a Rectangle Squares have some additional properties which do not apply to rectangles. The length of the diagonals is equal. Solution: According to the properties of a rectangle, Area of a Rectangle = (Length  $\times$  Width). So, if we find the total area of the wall in square meters and multiply it by the cost to paint 1 square meter of the wall then we can the total cost. A square has four equal sides, whereas, in a rectangle, only the opposite sides are equal. The properties of a rectangle distinguish it from the other quadrilaterals. The sum of all the interior angles of a rectangle is  $360^\circ$ . Book a Free Trial Class FAQs on Properties of Rectangle The basic properties of a rectangle are that its opposite sides are parallel and equal and its interior angles are equal to  $90^\circ$ . In other words, a golden rectangle is a rectangle whose 'length to width ratio' is similar to the golden ratio, 1: (1+  $\sqrt{5}$ )/2. Along with these properties, the opposite sides of a square are equal and parallel and the diagonals bisect each other at  $90^\circ$ . Solution: The area and perimeter of a rectangle can be calculated using the properties of a rectangle. The sum of interior angles of a quadrilateral is  $360^\circ$ . Therefore, option E is the correct answer. Step 3: Approach and Working out A wall is painted across its entire area. Observe the rectangle given below to see that the four sides of a rectangle are not equal, only the opposite sides are equal. So, what are the properties of quadrilaterals? There are two properties of quadrilaterals: A quadrilateral should be closed shape with 4 sidesAll the internal angles of a quadrilateral sum up to  $360^\circ$  In this article, you will get an idea about the 5 types of quadrilaterals (Rectangle, Square, Parallelogram, Rhombus, and Trapezium) and get to know about the properties of quadrilaterals. Is a Square a Rectangle? Here are the three properties of a Square: All the angles of a square are  $90^\circ$ All sides of a square are equal and parallel to each otherDiagonals bisect each other perpendicularly Square formula - area and perimeter of a square If the side of a square is 'a' then, Area of the square =  $a \times a = a^2$ Perimeter of the square =  $2 \times (a + a) = 4a$  These practice questions will help you solidify the properties of squares Scoring a Q50-51 on the GMAT helps you get a 700+ GMAT score. If you are planning to take the GMAT, we can help you with high-quality study material which you can access for free by registering here. Length of the rectangle = 14 cm; Width of a rectangle = 10 cm Area of a rectangle: Length  $\times$  Width  $14 \times 10 = 140$  cm<sup>2</sup> Perimeter of a rectangle = 2 (length + width)  $2 (14 + 10) = 24 \times 2 = 48$  cm Example 2: George has a rectangular photo frame that is 11 inches long and 8 inches wide. What is a Rectangle? Did you know e-GMATers have reported more 700+ scores than ever before in GMAT Club's history? These properties are seen in the two types of rectangles - the Square and the Golden Rectangle. Square A square is a type of rectangle with four equal sides and four equal angles. The application of quadrilaterals is important to solve geometry questions on the GMAT. The word quadrilateral is derived from two Latin words 'quadri' and 'latus' meaning four and side respectively. Take a free GMAT mock to understand your baseline score and start your GMAT prep with our free trial. GMAT Quadrilaterals Practice Question 2 Steve wants to paint one rectangular-shaped wall of his room. Yes, a square is considered as a rectangle as it contains the properties of a rectangle, like, all the four interior angles are  $90^\circ$ , the opposite sides of a square are parallel and equal to each other, and two diagonals of the square are equal and bisect each other. This is the reason that a rectangle is not a square. A rectangle is a two-dimensional shape (2D Shape) with four sides, four angles, and four vertices. Perimeter of a Rectangle:  $P = 2(l + w)$ , where 'l' is the length and 'w' is the width of the rectangle. Types of Rectangles A rectangle has four sides with the opposite sides equal to each other and with the adjacent sides meeting at  $90^\circ$ . 20 meters25 meters30 meters40 meters50 meters Solution Step 1: Given Adam has a rectangular garden. A rectangle is an equiangular quadrilateral in which the opposite sides are parallel and equal to each other and all four angles are right angles. Watch this video to understand how e-GMAT has achieved this record-shattering result by investing and innovating with a single goal in mind - To create a platform that empowers students to achieve and deliver their very best. A rectangle is a quadrilateral with four equal interior angles. All the internal angles sum up to  $360^\circ$ . We are the most reviewed GMAT prep company on gmatclub with more than 2200+ reviews, as of 4th October 2021. Write to us at [acethgmat@e-gmat.com](mailto:acethgmat@e-gmat.com) in case of any query. Thus, it has two pairs of parallel sides. Moreover, the opposite sides of a rectangle are parallel and equal, and diagonals bisect each other. Step 3: Approach and Working out The fence can only be built around the outside sides of the garden. Step 2: To find the total cost to paint the wall. Thus, the area of the rectangular frame =  $11 \times 8 = 88$  square inches Therefore, the area of the photo frame = 88 inches<sup>2</sup> Example 3: The perimeter of a rectangular pool is 86 meters. What are the Properties of a Rectangle? The cost to paint the wall is \$1.5 per square meter. The length of the diagonal with sides a and b is  $\sqrt{a^2 + b^2}$ . He wants to build a fence around it. However, the angles are not equal to  $90^\circ$ . For example, if the length is around 1 foot long then the width will be 1.168 feet long or vice-versa where the Golden Ratio = 1 : 1.618. You can find a few practice questions on quadrilaterals in this article.What is the sum of the interior angles of a quadrilateral? The properties of a rectangle help us identify the figure at one glance. In Euclidean geometry, a quadrilateral is a four-sided 2D figure whose sum of internal angles is  $360^\circ$ . Therefore, identifying the properties of quadrilaterals is important when trying to distinguish them from other polygons. Since the diagonals divide the rectangle into two right-angled triangles, they are considered to be the hypotenuse of these triangles. We hope by now you would have learned the different types of quadrilaterals, their properties, and formulas and how to apply these concepts to solve questions on quadrilaterals. How many meters of fence he should buy to fence the entire garden? In order to understand the rectangle better, observe the rectangle given above and relate to the following properties of a rectangle. Since a rectangle is a quadrilateral in which all four angles are equal to each other, the angle formed by its adjacent sides is  $90^\circ$ . **Related Articles** Example 1: If the length and width of a rectangle are 14 cm and 10 cm, respectively, calculate the area and perimeter of the rectangle. Solution: The formula to calculate the perimeter is  $P = 2(\text{length} + \text{width})$ . Given that, the perimeter is 86 meters and the length is 40 meters. Square Square is a quadrilateral with four equal sides and angles. Rectangle A rectangle is a quadrilateral with four right angles.

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