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familiar with some fundamental geometric figures o calculate the perimeter and area of a rectangle o derive a formula for the area of a triangle

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the area of each triangle is one half the area of the rectangle the formula for the area of a triangle is  $\frac{1}{2} b h$  where  $b$  is the base and  $h$  is the height to find the area of the triangle you need to know its base and height the base is the length of one side of the triangle usually the side at the bottom

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try drawing a quadrilateral and measure the angles they should add to 360 types of quadrilaterals there are special types of quadrilateral some types are also included in the definition of other types for example a square rhombus and rectangle are also parallelograms see below for more details let us look at each type in turn

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use properties of rectangles use properties of triangles use properties of trapezoids be prepared 9 10 before you get started take this readiness quiz the length of a rectangle is 3 less than the width let  $w$  represent the width write an expression for the length of the rectangle if you missed this problem review example 2 26

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definition properties of rectangles rectangles have four sides and four right 90 angles the lengths of opposite sides are equal the perimeter  $p$  of a rectangle is the sum of twice the length and twice the width see figure 9 19  $p = 2l + 2w$  the area  $a$  of a rectangle is the length times the width  $a = l \cdot w$

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triangles that are congruent have identical side lengths and angles and so their areas are equal the area of each triangle is one half the area of the rectangle or  $\frac{1}{2}bh$  this example helps us see why the formula for the area of a triangle is  $\frac{1}{2}bh$

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unit test test your understanding of triangles with these nan questions start test you probably like triangles you think they are useful they show up a lot what you ll see in this topic is that they are far more magical and mystical than you ever imagined

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math article triangles in geometry a triangle is a three sided polygon that consists of three edges and three vertices the most important property of a triangle is that the sum of the internal angles of a triangle is equal to 180 degrees this property is called angle sum property of triangle

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a degenerate case is a member of a certain class that is so different from the other members that it belongs to another usually more simpler class e g a triangle formed by three points all of which are on a straight line is better considered as a line segment these are the limits of the definition of things

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square a square has four congruent sides and four right angles so it is also a rectangle a rectangle is a square when all of its sides are congruent symmetry in a rectangle

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rectangles have four sides and four right 90 angles the lengths of opposite sides are equal the perimeter of a rectangle is the sum of twice the length and twice the width  $p = 2l + 2w$

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