

# Free ebook Practice a 4 8 isosceles and equilateral triangles (Read Only)

equilateral isosceles and scalene there are three special names given to triangles that tell how many sides or angles are equal there can be 3 2 or no equal sides angles isosceles triangles have two congruent sides and two congruent base angles equilateral triangles have all side lengths equal and all angle measures equal we use these properties to find missing angles in composite figures the video explores how triangles are classified based on their sides and angles it introduces the terms scalene isosceles and equilateral for side lengths and acute right and obtuse for angles it emphasizes that triangles can be categorized in multiple ways based on these characteristics created by sal khan we know that triangles are three sided polygons and they are classified as equilateral isosceles and scalene based on the length of their sides in this article we will learn about the definition of an isosceles triangle its properties and some isosceles triangle examples take a closer look at the properties of some unique figures isosceles and equilateral triangles isosceles triangles let s begin our study of isosceles triangles by learning new terminology that will help us identify various characteristics of these kinds of triangles recall that an isosceles triangle is a triangle with at least two step by step guide isosceles and equilateral triangles 1 isosceles triangle definition and properties an isosceles triangle has two sides of equal length known as the legs the third side is called the base the angles opposite the equal sides are congruent the

altitude drawn to the base bisects both the base and the vertex angle 2 triangles are sorted into three types based on their side congruency equilateral isosceles and scalene a triangle with three congruent sides is called an equilateral triangle equilateral is derived from two latin words aequus which means equal and latus which means side an equilateral triangle is the one in which all the three sides are equal it is a special case of the isosceles triangle where the third side is also equal in the triangle  $abc$   $ab = bc = ca$  properties of an equilateral triangle are it has 3 equal sides it has 3 equal angles an isosceles right triangle is a triangle with 2 congruent sides and angles in which the non congruent angle measures  $90^\circ$  because the sum of a triangle's interior angles is equal to  $180^\circ$  the remaining two angles in an isosceles right triangle measure  $45^\circ$   $90^\circ$   $45^\circ$   $45^\circ$   $180^\circ$  an equilateral triangle has 3 equal length sides an isosceles triangle has at least 2 sides of the same length thus all equilateral triangles are also isosceles this video covers the basics of isosceles and equilateral triangles we cover theorem of both types of triangles and work several examples in which we figure out the angles or sides given a an equilateral triangle has all three sides equal in length its three angles are also equal and they are each  $60^\circ$  therefore an equilateral triangle is also an equiangular triangle triangles equilateral isosceles and scalene mathematics is fun 18 4k subscribers subscribed 1k 205k views 10 years ago there are three special names given to triangles that tell how isosceles equilateral scalene obtuse triangles can be classified by various properties relating to their angles and sides the most common classifications are described on this page triangle calculator isosceles and equilateral triangles plane geometry isosceles and equilateral triangles scalene isosceles equilateral in a scalene triangle all three sides have different lengths

in an isosceles triangle at least two sides are the same length in an equilateral triangle all three sides are the same length base angles find the isosceles triangle area its perimeter inradius circumradius heights and angles all in one place if you want to build a kennel find out the area of the greek temple isosceles pediment or simply do your maths homework this tool is here for you in geometry an isosceles triangle is a triangle that has two sides of equal length sometimes it is specified as having exactly two sides of equal length and sometimes as having at least two sides of equal length the latter version thus including the equilateral triangle as a special case 16k 168k views 4 years ago equilateral triangles isosceles triangles scalene triangles 4th grade math 5th grade math easy math fun math types of triangles more because an equilateral triangle is also isosceles all triangles are either scalene or isosceles but when people call a triangle isosceles they are usually referring to a triangle with only two equal sides because if the triangle had three equal sides they would call it equilateral isosceles and equilateral triangles an isosceles triangle is a triangle in which at least two sides have the same length an equilateral triangle is a triangle in which all three sides have the same length

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