

5.3

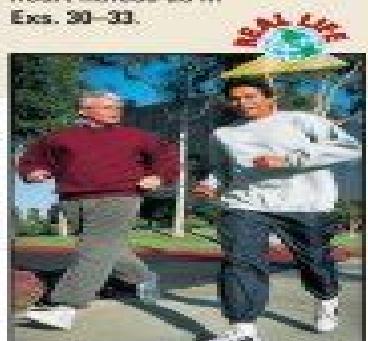
Medians and Altitudes of a Triangle

What you should learn

- GOAL 1 Use properties of medians of a triangle.
- GOAL 2 Use properties of altitudes of a triangle.

Why you should learn it

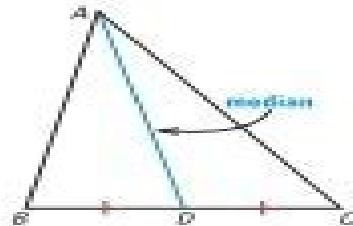
- To solve real-life problems, such as locating points in a triangle used to measure a person's heart fitness as in Exs. 30–33.



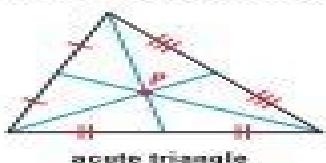
GOAL 1 USING MEDIANs OF A TRIANGLE

In Lesson 5.2, you studied two special types of segments of a triangle: perpendicular bisectors of the sides and angle bisectors. In this lesson, you will study two other special types of segments of a triangle: *medians* and *altitudes*.

A **median of a triangle** is a segment whose endpoints are a vertex of the triangle and the midpoint of the opposite side. For instance, in $\triangle ABC$ shown at the right, D is the midpoint of side BC . So, AD is a median of the triangle.



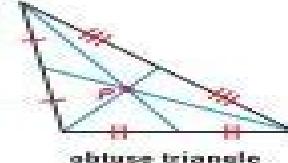
The three medians of a triangle are concurrent. The point of concurrency is called the **centroid of the triangle**. The centroid, labeled P in the diagrams below, is always inside the triangle.



acute triangle



right triangle



obtuse triangle

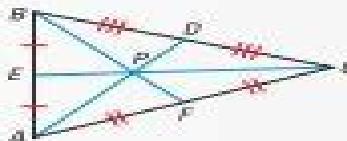
The medians of a triangle have a special concurrency property, as described in Theorem 5.7. Exercises 13–16 ask you to use paper folding to demonstrate the relationships in this theorem. A proof appears on pages 836–837.

THEOREM

THEOREM 5.7 Concurrency of Medians of a Triangle

The medians of a triangle intersect at a point that is two thirds of the distance from each vertex to the midpoint of the opposite side.

If P is the centroid of $\triangle ABC$, then $AP = \frac{2}{3}AD$, $BP = \frac{2}{3}BF$, and $CP = \frac{2}{3}CE$.



The centroid of a triangle can be used as its balancing point, as shown on the next page.

Geometry Lesson 5 3 Worksheet Medians And Altitudes

Nichols

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Merrill Geometry MERRILL, 1994-05 *Geometry* Nichols, 1991 A high school textbook presenting the fundamentals of geometry **New York Math: Math A**, 2000 **Geometry, Grade 5** Spectrum, 2013-12-02 New to the Spectrum R series Geometry is a skill specific math resource designed to completely support and challenge fifth graders in geometry This 96 page book goes into greater depth about geometry and provides a wide range of examples practice problems and assessments to measure progress The best selling Spectrum R series now provides students with focused practice based on the essential skills they need to master for Common Core success With explicit skill instruction step by step examples and ample practice as well as assessment tools for progress monitoring students are provided everything they need to master specific math skills Skill specific Spectrum R books are the perfect supplement for home or school

Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Geometry Lesson 5 3 Worksheet Medians And Altitudes**

In a global inundated with screens and the cacophony of immediate conversation, the profound power and psychological resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, located within the musical pages of **Geometry Lesson 5 3 Worksheet Medians And Altitudes**, a interesting perform of fictional splendor that impulses with raw emotions, lies an unique trip waiting to be embarked upon. Published with a virtuoso wordsmith, this exciting opus books viewers on an emotional odyssey, lightly exposing the latent potential and profound affect stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is main styles, dissect their charming publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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