

5-1

Midsegments of Triangles

Common Core State Standards

G-CO.C.10 Prove theorems about triangles ...
 the segment joining the midpoints of two sides of a triangle is parallel to the third side and half the length ...
 Also G-CO.D.12, G-SRT.B.5
 MP 1, MP 3, MP 4, MP 5

Objective To use properties of midsegments to solve problems



Check with your classmates. Do they get the same results?



Getting Ready!

Cut out a triangle of any shape. Label its largest angle C , and the other angles A and B . Fold A onto C to find the midpoint of AC . Do the same for BC . Label the midpoints L and N , and then draw LN .

Fold the triangle on LN as shown.

Fold A to D and fold B to D .

Label the vertices M and P as shown.

What is the relationship between MP and AB ? How do you know?

What conjecture can you make about the relationship between LN and AB ?



In the Solve It, \overline{LN} is a midsegment of $\triangle ABC$. A **midsegment of a triangle** is a segment connecting the midpoints of two sides of the triangle.

Essential Understanding There are two special relationships between a midsegment of a triangle and the third side of the triangle.



Theorem 5-1 Triangle Midsegment Theorem

Theorem

If a segment joins the midpoints of two sides of a triangle, then the segment is parallel to the third side and is half as long.

If ...

D is the midpoint of \overline{CA} and
 E is the midpoint of \overline{CB}



Then ...

$\overline{DE} \parallel \overline{AB}$ and
 $DE = \frac{1}{2}AB$

You will prove Theorem 5-1 in Lesson 6-9.

Lesson 5 1 Midsegments Of Triangles Answers Key

**McDougal Littell Incorporated, Ron
Larson**



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TI-Nspire Strategies: Geometry Aimee L. Evans, Pamela H. Dase, 2008-10-01 Maximize student use of TI Nspire technology while processing and learning geometry concepts The lessons delve into the five environments of TI Nspire including calculator graphs and geometry lists and spreadsheets notes and data analysis Problem solving practice and step by step instructions are included This resource is correlated to the Common Core State Standards is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills and supports core concepts of STEM instruction 224pp

Passport to Algebra and Geometry McDougal Littell Incorporated, Ron Larson, 2004

Reviewing **Lesson 5 1 Midsegments Of Triangles Answers Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Lesson 5 1 Midsegments Of Triangles Answers Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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