

# 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,  $LN$  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.

### Take Note

#### 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.

# 5 1 Standardized Test Prep Midsegments Of Triangles

**Jicheng Xie**



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*New York Math: Math A*, 2000      Cases on Technology Integration in Mathematics Education Polly, Drew, 2014-09-30

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