

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.

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.

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Rachel S Tattersall



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web solution $v_1 = 250 \text{ l}$ $v_2 = ?$ $t_1 = 273 \text{ K}$ $t_2 = 303 \text{ K}$ we will be applying charles law as pressure is constant here $v_1 t_1 = v_2 t_2$ or $v_2 = \frac{v_1 t_1}{t_2} = \frac{250 \text{ l} \times 273 \text{ K}}{303 \text{ K}} = 228.3 \text{ l}$ at 90°C a helium sample has a volume of 500 ml determine the temperature at which the volume of the liquid will become 240 ml