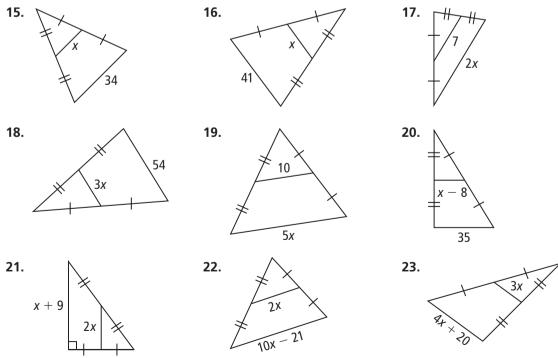
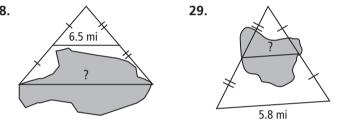
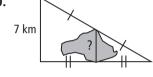
Name		Class	_ Date		
5-1	Practice		Form G		
	Midsegments of Triangles				
Identify three pairs of triangle sides in each diagram.					
	C H N	2. J L A A A B A B A A B A A A B A	ĸ		
Name the triangle sides that are parallel to the given side.					
3. \overline{AB}		$4. \ \overline{AC}$	XH		
5. <i>CB</i>		6. \overline{XY}	A H		
7. <i>XZ</i>		8. \overline{ZY}	z +++ t c		
Points <i>M</i> , <i>N</i> , and <i>P</i> are the midpoints of the sides of $\triangle QRS$. QR = 30, RS = 30, and SQ = 18.					
9. Find <i>MN</i> .		10. Find <i>MQ</i> .	M		
11. Find <i>MP</i> .		12. Find <i>PS</i> .	$q \qquad s$		
13. Find <i>PN</i> .		14. Find <i>RN</i> .	P		
Algebra Find the value of x.					



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Name		Class	Date		
5-1	Practice (continued) Midsegments of Triang	gles	Form G		
<i>D</i> is the midpoint of \overline{AB} . <i>E</i> is the midpoint of \overline{CB} .					
24. If $m \angle A = 70$, find $m \angle BDE$.					
25. If $m \angle BED = 73$, find $m \angle C$.			D		
26. If <i>DE</i> = 23, find <i>AC</i> .			c		
27. If $AC = 83$, find <i>DE</i> .					
Find the distance across the lake in each diagram.					
28.	29.	?	30. 7 km		





Use the diagram at the right for Exercises 31 and 32.

- **31.** Which segment is shorter for kayaking across the lake, \overline{AB} or \overline{BC} ? Explain.
- **32.** Which distance is shorter, kayaking from *A* to *B* to *C*, or walking from *A* to *X* to *C*? Explain.
- 33. Open-Ended Draw a triangle and all of its midsegments. Make a conjecture about what appears to be true about the four triangles that result. What postulates could be used to prove the conjecture?
- 34. Coordinate Geometry The coordinates of the vertices of a triangle are *K*(2, 3), L(-2, -1), and M(5, 1).
 - **a.** Find the coordinates of *N*, the midpoint of \overline{KM} , and *P*, the midpoint of \overline{LM} .
 - **b.** Show that $\overline{NP} \parallel \overline{KL}$.
 - **c.** Show that $NP = \frac{1}{2}KL$.

