Written Exercises

Copy the chart. Then place check marks in the appropriate spaces.

|		Property	Parallelogram	Rectangle	Rhombus	Square
A	**1.**	Opp. sides are ∥.				
	2.	Opp. sides are ≅.				
	3.	Opp. ⚹ are ≅.				
	4.	A diag. forms two ≅ △.				
	5.	Diags. bisect each other.				
	6.	Diags. are ≅.				
	7.	Diags. are ⊥.				
	8.	A diag. bisects two ⚹.				
	9.	All ⚹ are rt. ⚹.				
	10.	All sides are ≅.				

Quad. *SLTM* is a rhombus.

11. If $m\angle 1 = 25$, find the measures of $\angle 2$, $\angle 3$, $\angle 4$, and $\angle 5$.

12. If $m\angle 1 = 3x + 8$ and $m\angle 2 = 11x - 24$, find the value of x.

13. If $m\angle 1 = 3x + 1$ and $m\angle 3 = 7x - 11$, find the value of x.
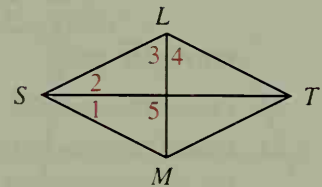
Quad. *FLAT* is a rectangle.

14. If $m\angle 1 = 18$, find the measures of $\angle 2$, $\angle 3$, and $\angle 4$.

15. If $FA = 27$, find LO.

16. If $TO = 4y + 7$ and $FA = 30$, find the value of y.
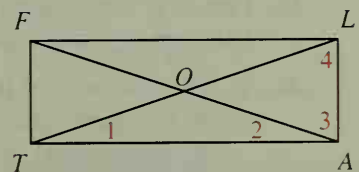
$\overline{GM}$ is a median of right $\triangle IRG$.

17. If $m\angle 1 = 32$, find the measures of $\angle 2$, $\angle 3$, and $\angle 4$.

18. If $m\angle 4 = 7x - 3$ and $m\angle 3 = 6(x + 1)$, find the value of x.

19. If $GM = 2y + 3$ and $RI = 12 - 8y$, find the value of y.