

Written Exercises

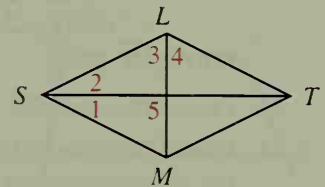
Copy the chart. Then place check marks in the appropriate spaces.

A

Property	Parallelogram	Rectangle	Rhombus	Square
1. Opp. sides are \parallel .				
2. Opp. sides are \cong .				
3. Opp. \angle s are \cong .				
4. A diag. forms two $\cong \triangle$.				
5. Diags. bisect each other.				
6. Diags. are \cong .				
7. Diags. are \perp .				
8. A diag. bisects two \angle s.				
9. All \angle s are rt. \angle s.				
10. All sides are \cong .				

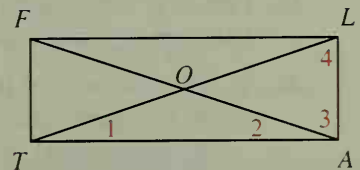
Quad. $SLTM$ is a rhombus.

- If $m\angle 1 = 25$, find the measures of $\angle 2$, $\angle 3$, $\angle 4$, and $\angle 5$.
- If $m\angle 1 = 3x + 8$ and $m\angle 2 = 11x - 24$, find the value of x .
- If $m\angle 1 = 3x + 1$ and $m\angle 3 = 7x - 11$, find the value of x .



Quad. $FLAT$ is a rectangle.

- If $m\angle 1 = 18$, find the measures of $\angle 2$, $\angle 3$, and $\angle 4$.
- If $FA = 27$, find LO .
- If $TO = 4y + 7$ and $FA = 30$, find the value of y .



\overline{GM} is a median of right $\triangle IRG$.

- If $m\angle 1 = 32$, find the measures of $\angle 2$, $\angle 3$, and $\angle 4$.
- If $m\angle 4 = 7x - 3$ and $m\angle 3 = 6(x + 1)$, find the value of x .
- If $GM = 2y + 3$ and $RI = 12 - 8y$, find the value of y .

