## Quadrilaterals Wrap-Up



1. Suppose a room is constructed in the shape of a rhombus so that one diagonal is 6 feet long and the other is 8 feet long. Find the perimeter of the rhombus.
2. The two diagonals of a square meet at $(-1,-5)$. Use the midpoint formula to determine which of the following ordered pairs represent the end points of one of the diagonals.

A $(4,6)$ and $(2,4)$
B $(-4,-6)$ and $(2,-4)$
C $(4,-6)$ and $(-2,4)$
D $(-4,6)$ and $(2,4)$
3. Trapezoid $A B C D$ has three of its vertices located at $A(2,4), B(6,-4)$, and $C(1,-6)$. If segments $A B$ and $C D$ are the legs of the trapezoid, what is the slope of the median of Trapezoid ABCD?

4. Rectangle $W X Y Z$ has vertices at $W(-4,2), X(4,6), Y(7,0)$ and $\mathrm{Z}(-1,-4)$. Laura wants to connect the midpoints of the rectangle to form a parallelogram. What are the vertices of the parallelogram that touches the midpoint of each of the four sides of Rectangle WXYZ?


