11.2 Areas of Trapezoids, Rhombuses, and Kites

**Area of a Trapezoid**

\[ A = \text{____________} \text{ Where } \_\text{ is the } \_\text{ and } \_\text{ and } \_\text{ are the } \_. \]

**Area of a Rhombus**

\[ A = \text{____________} \text{ Where } \_\text{ and } \_\text{ are the } \_. \]

**Area of a Kite**

\[ A = \text{____________} \text{ Where } \_\text{ and } \_\text{ are the } \_. \]

Find the area

The area of a kite is 80 ft\(^2\). One diagonal is 4 times as long as the other. Find the diagonal lengths.
Find the area of a rhombus with vertices $M(1, 3)$, $N(5, 5)$, $P(9, 3)$ and $Q(5, 1)$.

Assignment: 733 #4-38 even, 44-48 even = 21