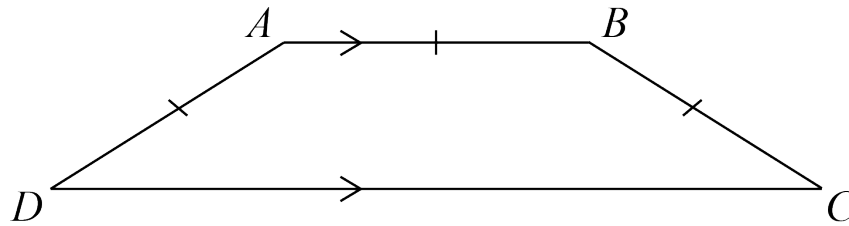# Problem of the Week
Problem E
Trapped

In trapezoid $ABCD$, sides AB and CD are parallel, and the lengths of sides AD, AB, and BC are equal.

If the perpendicular distance between AB and CD is 8 units, and the length of CD is equal to 4 more than half the sum of the other three side lengths, determine the area and perimeter of trapezoid $ABCD$.