QUIZ 3 - MATH 102 YOUR NAME:	Friday, September 16 George Voutsadakis
Read each problem very carefully before starting to s points. It is necessary to show all your work. Correct worth 0 points. GOOD LUCK!!	
1. Suppose the perimeter of a rectangular sign is 44 cm an the length. We would like to find the dimensions of the	
(a) Introduce variables and state explicitly what they	stand for.
(b) Use the variables to write equation(s) reflecting th	e data.
(c) Solve the equation(s) to determine the dimensions	of the sign.

2. Alex lent his sister Barbara and his brother Clark a total of \$200. Barbara agreed to a 6% interest rate on her loan and Clark negotiated a 5% interest rate. If Alex's return was \$ 11.2

how much did each of his siblings borrow?

3. Solve the linear inequality

$$\frac{1}{3}x - \frac{15}{2} \le \frac{11}{2}x + \frac{17}{6}.$$

Write your answer in interval notation.