

Name _____

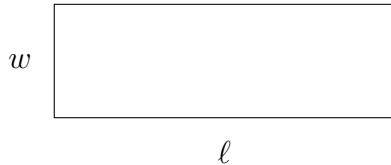
- Write as neatly as you can!
- No calculators are allowed.
- You must show your work to obtain full credit.

1. (*5 points*) Suppose you own a rectangular plot of land, but you cannot recall its length and width. But you can remember following details:

- the length is three times the width and
- the perimeter is 80m.

Find the length and the width.

(Hint: the final answer should have an area of 300m^2 .)



2. (5 points) Find all values of x that satisfy the inequality

$$|3x - 6| + \frac{5}{2} \geq \frac{11}{2}$$

3. (1 point, extra credit) A laptop is priced at \$1000 and the store announces a 10% discount. If you buy the laptop at the discounted price using a credit card that gives you 5% back, how much have you actually paid for the laptop?