Algebra | Notes Section 5.6

Notes Section 5.6 Solve Absolute Value Inequalities

Big Ideas 1. How to rewrite and absolute value inequality as a compound inequality.	
VOCABULARY	
AND:	
OR:	
EXAMPLE 1 Solve the inequalit	y and then graph your solution.
a) x 2 6	
b) x \(\left(0.5 \)	-
EXAMPLE 2 Solve and then gra a) $ x-5 \ge 7$	ph your solution. b) x+2 >1
EXAMPLE 3 •• Solve: •• a) -4x - 5 + 3 < 9	4
	4

b)
$$|2x+3|-4 \le 5$$

Example 4 You are buying a new computer and find 10 models in a store advertisement. The prices are \$890, \$750, \$650, \$370, \$660, \$670, \$450, \$650, \$725 and \$825.

a) Find the mean of the prices.

b) You are willing to pay the mean price with an absolute deviation of at most \$100. How many of the computer prices meet your condition?