Algebra Bellwork - November 10, 2011

Write an inequality for each situation:

1) No more than 2,000 people can fit in the Point Loma bleachers.

2) At least 40 people must buy tickets or they will cancel the dance.

Check your work:

2) $2 \leq n \leq 9$

6) $1 \leq w \leq 5$

8) $-4 < p \leq -2$

21) b < -2 or b > 2

22) k < -5 or k > -1

23) $c < 2 \text{ or } c \geq 3$

24) $a \leq 4 \text{ or } a > 5$

29) $-2 < x < 3$

30) $x < -3 \text{ or } x \geq 2$

31) $x \leq 0 \text{ or } x > 2$

32) $-4 \leq x \leq 3$

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1) $p \leq 2{,}000$ or $2{,}000 \geq p$

2) $p \geq 40$ or $40 \leq p$

Objective: Today we will compare and contrast inequalties and equations.

Language Objective: Today we will write a short essay that describes different examples of inequalities.

Imagine you are an Algebra tutor and the student you are helping says, "I understand equations, but when will I ever use inequalities outside of Algebra class?"

You and your partner will write a response to the question.

In the response:

1) Explain how an inequality is different than an equation.

2) Describe 10 situations that you can represent with an inequality (E.g. I will not work for **less than** $15 an hour.)

3) You must use the following vocabulary at least once:

i. At least
ii. At most
iii. More than
iv. Less than
v. No more than
vi. No less than