

NAME: \_\_\_\_\_

*P.I. A.A.6: Analyze and solve verbal problems whose solution requires solving a linear inequality in one variable*

1. Explain how to check the reasonableness of solutions.
2. Perry is trying to decide how many CDs to buy with the money he has. He solves an inequality and gets an answer of  $c \leq 4.67$ . Give the reasonable solutions to this problem. Explain why they are reasonable.
3. Write a situation for which a reasonable solution is any positive number between two other numbers. Write an inequality to represent your situation.

Answers may vary. Sample: Make sure your solutions fit the restrictions given in the problem and use  
[1] common sense.

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Sample: Since  $c$  represents the number of CDs Perry can buy, it makes sense to consider positive  
[2] integers only. So the solutions are  $0 < c \leq 4$ , where  $c$  is an integer.

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[3] Answers may vary. Sample: The minimum temperature was  $11^{\circ}\text{F}$ . The maximum was  $20^{\circ}\text{F}$ .  $11 \leq t \leq 20$

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