MS 181 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit:** Expressions and Equations **Learning Target:** I can identify properties of inequalities

**Topic:** Inequalities I can solve inequalities

**Standards:** CCLS 7.EE.A.1, 7.EE.A.2 I can graph the solutions of inequlities **Prepared by:** Mrs. J. Mataquel

**Mastery Test 3**

**Part 1:**

**Directions: Choose the letter of the best answer. (3 points each)**

1. 

a. c. 

b.  D. 

1. Kiara has $20 to spend. She wants to buy a book for $12 and spend the remaining money on name tags for her luggage. Each name tag costs $2. Which inequality below can be used to calculate the correct number of name tags, x, Kiara can buy for her luggage?

A. 12x + 2 < 20 C. 2x + 12 < 20

B. 12x – x > 20 D. 2x – 12 > 20

1. For her cell phone plan, Heather pays $30 per month plus $0.05 per text. She

wants to keep her bill under $60 per month. Which inequality represents the number of texts, t , Heather can send each month while staying within her budget?

A. t < **6**00 B. t > **6**00 C. t < 1,800 D. t > 1,800

1. Craig went bowling with $25 to spend. He rented shoes for $5.25 and paid

$4.00 for each game. What was the greatest number of games Craig could have played?

A. 4 B. 5 C. 6 D. 7

1. Ben earns $9 per hour and $6 for each delivery he makes. He wants to earn

more than $155 in an 8-hour workday. What is the least number of deliveries

he must make to reach his goal?

A. 11 B. 12 C. 13 D.14

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**Part 2:**

**Directions: Solve each problem. Show complete work (5 points each)**

1. Harper has $15.00 to spend at the grocery store. She is going to buy bags of fruit that cost $4.75 each and one box of crackers that costs $3.50. Write and solve an inequality that models this situation and could be used to determine the maximum number of bags of fruit, **b**, Harper can buy. Show your work.
2. As a salesperson, you are paid $50 per week plus $3 per sale. This week you

want your pay to be at least $100. Write an inequality for the number of sales you need to make, and describe the solutions. Show complete work.