Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Simple inequalities:

Write an inequality for each sentence: (1 pt each)

There were more than 11 players on the field.

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There were fewer than 4 tomatoes on the plant.

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No more than 18 sodas could fit in the cooler.

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Graphing simple inequalities ( 2 pts each)

Graph the following inequalities on the attached number line (next page).

x < 7

w ≤ -2

y ≥ 4

x ˃ -11

a ≤ 13

d < -3

Compound inequalities:

Write a compound inequality for each sentence: (2 pts each)

Every player who started scored between 10 and 20 points.

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The resort town sees the most business when temperatures are less than 32 degrees, or more than 75 degrees.

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The low score for the season was 48 points. The high score for the season was 78 points.

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Every cup on the table had either 3 ice cubes or less, or at least 6 ice cubes.

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Graphing compound inequalities (3 pts each)

Graph the following inequalities on the attached number line (next page).

2 < x < 9

y > 5 and y < 12

g < 5 or g > 13

-3 ≤ b < 6

m > -3 or m < -8

-1 > b ≥ -9

Solve the following inequalities for the missing variable: (3 pts each)

x + 4 < 9 y – 2 > 0 7 + p ≤ 5

$\frac{r}{5}<-2$ -7k ≥ 56 5d > -15

3p + 11 > 5 w – 6 > 4w + 15 4 (2 - x) ≥ 48

Javier needs to earn money to buy the video game system he wants. He mows lawns for $12 each. If the game costs $192, what is the least amount of lawns he needs to mow to buy the game?