

Name: _____ Date: _____

BLM 9-6
(continued)

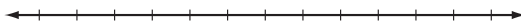
- 9.** Find the solution for each of the inequalities. Write your answers in simplest form.

a) $4(2x - 1) < 16$

b) $\frac{x}{3} \geq -\frac{1}{2}$

- 10.** Solve the inequality. Then, show the solution for the linear inequality on the number line.

$6 - 3x < 14 + x.$



Written Response

11. Victoria is helping her mother plan a lunch for the people attending a workshop. Their budget is \$1000. Lunch costs \$17 per person. There is also a \$25 charge to rent the room.

a) Write an inequality that shows the number of people, n , that they can serve lunch and stay within the budget.

b) Solve the inequality for the variable n . Round your answer to 2 decimal places.

c) Victoria and her mother disagree about the number of people that they can provide lunch for and stay within their budget. Victoria says that they can have 58 people but her mother says 57 people. Who is correct? Circle VICTORIA or MOTHER. Give 1 reason for your answer.

d) If the maximum number of people attend the lunch, how much money will be left over from the original \$1000?

Sentence: _____

