Name: _____   Date: _____

Learning Goal 9.1	Solving linear inequalities.

Assignment

1. Solve each inequality. Graph the solution, and use a test point to verify your answer.

   a. $2m + 3 \leq -7$

   b. $-4x - 2 > 10$

   c. $2 + 3g < g - 5$

   d. $-2 \leq -6 + \dfrac{1}{4}c$

   e. $\dfrac{3}{5}f - \dfrac{1}{2} < 2 + f$

   f. $4a - 5 \leq a + 2$

   g. $15t - 17 \geq 21 - 4t$

   h. $24 + 3a \leq -6 + 7a$

   i. $-2(3 - 2n) \leq 2(2 - n)$

   j. $7 + \dfrac{1}{3}b \leq 2b + 22$

   k. $-\dfrac{5}{8}d + \dfrac{1}{4} \leq \dfrac{3}{4} - \dfrac{1}{2}d$

   l. $\dfrac{3}{2}a + \dfrac{1}{2} < \dfrac{7}{3}a - \dfrac{3}{4}$

2. The cost of a prom is $4000 to rent a hall and $40 per person for the meal. The prom committee has $10 000. How many students can attend?