Name _____ Class _____ Date _____

3-2 3-3 Homework Practice

Solving Inequalities Using Addition or Subtraction
Solving Inequalities Using Multiplication or Division

Solve & Graph the Inequalities below (

1. $x - 3 < 0$ **2.** $3 > -\frac{1}{5} + a$ **3.** $6.2 \leq c - 3.1$

4. $w + \frac{1}{3} \geq \frac{7}{3}$ **5.** $m + 2 \geq 0$ **6.** $2 \leq \frac{1}{4} + s$

7. $2x < 2$ **8.** $3 > -3a$ **9.** $6.2 \leq 3.1c$

10. $\frac{w}{-3} \geq \frac{7}{3}$ **11.** $\frac{i}{5} \geq -3$ **12.** $2 \leq \frac{s}{4}$

13. A local television station sponsors a food drive. The goal is to donate more than 1000 canned goods. The station already has collected 400 canned goods. How many more canned goods does the television station need to meet its goal? Write and solve an inequality to find the number of canned goods needed.

Let *f* be how many more canned goods will come.

14. A family earns at most $2500 a month. The family's monthly expenses are $2000. Write and solve an inequality to find the possible amounts of money the family could save each month.

15. You want to see if you are really saving money each month by exclusively using your cell phone for all long distance calls. Long distance calls cost $.03 per minute on your cell phone. The basic plan for your cell phone is $30 each month. The cost of regular phone service with unlimited long distance is $40. Write and solve an inequality to find the number of long-distance call minutes you may make and still save money.