**Write an inequality to model each situation.**

1.) A bus can seat at most 48 students.

2.) In many states, you must be at least 16 years old to obtain a driver’s license.

3.) It is not safe to use a light bulb of more than 60 watts in this light fixture.

4.) At least 350 students attended the band concert Friday night.

5.) The Navy’s flying squad, the Blue Angels, makes more than 75 appearances each year.

6.) **Describe a situation that you can represent using the inequality**: $x\geq 18$

***For what value(s) of*** $x$ ***satisfies the following absolute value equations?***

7.) $4\left|k+5\right|=8$ 8.) $\left|3c+1\right|-4=13$

9.) $-4\left|b-2\right|-9=-37$ 10.) $6-3\left|-8r-9\right|=-15$

**turn to the back for more review ☺**

Solve each inequality.

**1.** $3f+9<21$ **2.** $4n-3\geq 105$

**3.** $33y-3\leq 8$ **4.** $2+2p>-17$

**5.** $2\left(k+4\right)-3k\leq 14$ **6.** $3\left(4c-5\right)-2c>0$

**7.** $15\left(j-3\right)+3j<45$ **8.** $22\geq 5\left(2y+3\right)-3y$

**9.** Write an inequality for the following statements:

a. The capacity exceeds 150 seats. b. There were fewer than eighty-six people at the party.

**10.** Solve the following absolute value equations.

a. ⅔ |2x – 10| - 11 = -3 b. |4x – 5| + 15 = 36