Name:

Algebra

Review (3.1 – 3.3)

**Solve each inequality then graph the solution**

1. x – 2 > 3 2. 8 < z + 2

3. 4p < 20 4. 15 < 5w

5. -24 > -6m 6. 6 > 2k – 6

7. 3 + x/2 < 4 8. 3r – 4 < 4r + 1

9. 3f – 2 < 2f + 3 10. 2(x – 3) < 4

**Use a variable to write an inequality based on the given information**

11. Harry, who is not yet 16 years old, is three years younger than Lena. Find Lena’s age.

12. After driving 15 miles, Barry still has more than 75 miles to travel. Find the total number of miles Barry will drive.

13. Katrina’s balance in her checking account is $160. She must deposit at least enough money in her account to be able to pay her car payment of $295. Find the amount of deposit.

14. Dan bicycled 12 more kilometers than one third the number of kilometers Manuel bicycled. Dan bicycled at most 24 km. Find the number of kilometers Manuel bicycled.

15. The length of a rectangle is 7 cm longer than the width. The perimeter is no more than 38 cm. Find the width.