Name:

Algebra

Section 3.3

**Write an inequality for each problem, then solve**

1. Eileen, who is not yet 21 years old, is two years older than Ida. What is Ida’s age?

2. After addressing 75 envelopes, a political volunteer has fewer than 26 envelopes left to address. Find the total number of envelopes the volunteer needs to address.

3. A sales executive traveled a certain number of kilometers by airplane and then one tenth as far by automobile. Her total trip was more than 3000 km. How far did the executive travel by airplane?

4. Clark and John cut the grass of a neighbor’s lawn. Clark started the job and then John finished the job, working ½ hour longer than Clark. The job took at least 2 hours. Find the number of hours Clark worked.

5. Beth’s balance in her checking account is $75. She must deposit enough money in her account to be able to pay the telephone bill, which is $110. Find the amount of deposit.

6. The length of a rectangle is 4 cm longer than the width. The perimeter is no more than 28 cm. Find the width of the rectangle.

7. In a marathon Peter ran 15 more kilometers than half the number Juan ran. Peter ran at most 36 km. Find the number of kilometers Juan ran.

8. The cost for Rhoda to operate her car for one month was at least $190. The cost for gas and repairs was one half the amount of the monthly payment on the car loan. Find the amount of the monthly payment on the car loan.

9. The sum of three consecutive odd integers is no less than 51. Find the middle integer.