

Watkins EC #3

Due Friday Sept. 24

### Peanuts

A woman has some peanuts. She sees a friend at the door and she quickly eats a peanut before her friend enters and takes  $\frac{1}{2}$  of the remaining peanuts. She sees another friend at the door and she quickly eats another peanut before the second friend enters and takes  $\frac{1}{2}$  of the remaining peanuts. Finally, she sees a third friend at the door and she quickly eats a peanut before the third friend enters and takes  $\frac{1}{2}$  of the remaining peanuts. This leaves her with only 1 peanut. How many peanuts did the woman originally have?

You must show your work to get credit.