

Fun Algebra Fun Review Week 2  
**Some practice with function notation.**

Name \_\_\_\_\_

Let  $f(x) = 2x+1$ ,  $g(y) = y^2$ ,  $h(q) = |-q - 1|$

1.  $f(3) =$  \_\_\_\_\_

2.  $g(-1) =$  \_\_\_\_\_

3.  $h(12) =$  \_\_\_\_\_

4.  $f(g(-3)) =$  \_\_\_\_\_

5.  $h(f(g(-1))) =$  \_\_\_\_\_

6. Mr D. likes to say that for every math operation, there is another operation that “undoes” the first operation. Can you find a function, lets call it  $f^{-1}(x)$  that undoes the function  $f(x)$  as defined in numbers 1 and 2 above.

Bonus: Among 100 applicants for a technical position, 10 had never taken a course in chemistry or physics. Seventy five had taken at least one chemistry course, and 83 had taken at least one physics course. How many had taken both a chemistry and a physics course?