

Independent practice:

Let  $f(x) = 9 - x$ ,  $g(x) = 2x + 1$ , and  $h(x) = x - 2$ . Evaluate the following:

10.  $g(f(x))$   
 $= g(9 - x)$   
 $=$

11.  $f(g(x))$

12.  $h(f(x))$

13.  $f(h(x))$

14.  $h(g(x))$

15.  $g(h(x))$

Now let's try with numbers inside. Again, work from the inside out. This should be easier!!

Let  $f(x) = 2x - 1$ ,  $g(x) = 3x$ , and  $h(x) = x^2 + 1$ . Evaluate the following:

1.  $f(g(-3))$

*Do  $g(-3)$  first and get a number*

*Put that number into  $f(x)$*

2.  $f(h(7))$

3.  $g(h(2))$