	Name		
Advan	nced Algebra		
Unit 2: Fam	nilies of Functions		
Composition of fur	nctions- Good for notes!		
Assig	nment #14		
1) A clothing store is having a sale in which you ca store also offers 10% off your entire purchase.	an take \$50 off the cost of any coat in the store. The		
a) Show the price taking the \$50 off first and then	taking the 10% off.		
b) Show the price taking the 10% off first and ther	n taking the \$50 off.		
Why doesn't the store apply the 10% discount before	fore subtracting the \$50?		
Let $f(x)=10x$ and $g(x)=x+4$. For the following, wr	rite and simplify an expression for h(x). State the		
domain and the range of the new function h(x).			
1) $h(x) = f(x) + g(x)$	2) $f(x) - g(x)$		
	Domain:		
	Range:		
	1		

	F()
3) f(x) * g(x)	$4)\frac{f(x)}{g(x)}$
	y(x)
	Domain:
	Range:
5) f(g(x))	6) g(f(x))
	Domain:
	Domain
	Range:
	Nullge
7) f(f(x))	8) g(g(x))
, , , , ,	7 3.50 7
	Domain:
	Range:

Remember from the other side that ...

Let f(x)=10x and g(x)=x+4. Find the following . State the domain and the range of the new function.