

Quiz: Composition of Functions

Using  $f(x)=7x-5$  and  $g(x)=5x+4$ , find:

1.  $f(g(-5))$
2.  $g(f(2))$
3.  $f(f(-5))$
4.  $f(g(x))$

Using  $f(x)=x^2$  and  $g(x) =7x+4$  find:

5.  $(f \circ g)(x)$
6.  $(g \circ f)(x)$
7. Are these two answers the same? What does this information tell you about composition?

The notation  $[x]$  means the greatest integer not exceeding the value of  $x$ . Given  $f(x) = [x]$ ,  $g(x) =6x$  and  $h(x) =4/x$  find:

8.  $(f \circ g)(x)$
9.  $(f \circ h)(x)$
10.  $(h \circ f)(x)$

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%