

Name: \_\_\_\_\_

Date \_\_\_\_\_

**Topic : Composition of Functions - Worksheet 1**

**Using  $f(x) = 4x + 3$  and  $g(x) = x - 2$ , find:**

**1.  $f(g(5))$**

**2.  $g(f(-6))$**

**3.  $f(f(7))$**

**4.  $g(f(x))$**

**Using  $f(x) = 6x^2$  and  $g(x) = 14x + 4$  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  $f(x) = [x]$ ,  $g(x) = 12x$  and  $h(x) = 6/x$  find:**

**8.  $(f \circ g)(5)$**

**9.  $(f \circ h)(x)$**

**10.  $(h \circ f)(3)$**



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**Topic : Composition of Functions - Worksheet 2**

**Using  $f(x) = 5x + 4$  and  $g(x) = x - 3$ , find:**

**1.  $f(g(6))$**

**2.  $g(f(-7))$**

**3.  $f(f(8))$**

**4.  $g(f(x))$**

**Using  $f(x) = 8x^2$  and  $g(x) = 2x + 8$  find:**

**5.  $(f \circ g)(x)$**

**6.  $(f \circ g)(x)$**

**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  $f(x) = [x]$ ,  $g(x) = 15x$  and  $h(x) = 8/x$  find:**

**8.  $(f \circ g)(6)$**

**9.  $(f \circ h)(4)$**

**10.  $(h \circ f)(4)$**



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**Topic : Composition of Functions - Worksheet 3**

**Using  $f(x)=6x+2$  and  $g(x)= x-5$ ,find:**

**1.  $f(g(7))$**

**2.  $g(f(3))$**

**3.  $f(f(2))$**

**4.  $g(g(x))$**

**Using  $f(x)=2x^2$  and  $g(x) =3x+4$  find:**

**5.  $(g \circ f)(5)$**

**6.  $(f \circ g)(5)$**

**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  $f(x) = [x]$ ,  $g(x) =8x$  and  $h(x) =5/x$  find:**

**8.  $(f \circ g) (4)$**

**9.  $(f \circ h) (2)$**

**10.  $(h \circ f) (x)$**



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**Topic : Composition of Functions - Worksheet 4**

**Using  $f(x) = 7x + 4$  and  $g(x) = 2x - 4$ , find:**

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

**2.  $g(f(4))$**

**3.  $f(f(3))$**

**4.  $g(g(5))$**

**Using  $f(x) = 8x$  and  $g(x) = 4x + 2$  find:**

**5.  $(g \circ g)(x)$**

**6.  $(f \circ f)(x)$**

**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  $f(x) = [x]$ ,  $g(x) = 4x$  and  $h(x) = 4/x$  find:**

**8.  $(f \circ g)(x)$**

**9.  $(f \circ h)(4)$**

**10.  $(h \circ f)(2)$**



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**Topic : Composition of Functions - Worksheet 5**

**Using  $f(x) = 8x + 5$  and  $g(x) = 7x - 2$ , find:**

**1.  $f(g(4))$**

**2.  $g(f(6))$**

**3.  $f(f(3))$**

**4.  $g(g(2))$**

**Using  $f(x) = 7x^2$  and  $g(x) = 5x + 1$  find:**

**5.  $(g \circ g)(2)$**

**6.  $(f \circ f)(2)$**

**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  $f(x) = [x]$ ,  $g(x) = 6x^2$  and  $h(x) = 6/2x$  find:**

**8.  $(f \circ g)(3)$**

**9.  $(f \circ h)(5)$**

**10.  $(h \circ f)(3)$**

