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#### Function Worksheets 8th Grade

- 1) Find f(0) if the function f(x) = 8x.
- 2) Find f(4) if the function f(x) = (2x)(2x 2)(2x 4).
- 3) Find the value of the function  $f(x) = \frac{x+3}{2x}$  when x = 3.
- 4) The following table shows the different outputs against different inputs. Given that the input variable and the output variable have a linear relation.

×	1	2	4	11	24
f(x)	2	4	8	22	48

- (a) Find the function f(x) describing the input and the output.
- (b) Using this function, find the value of f(7).
- 5) Write a function f(x) whose output is the sum of the one third of the input and square root of the input. Also, find the value of f(9).
- 6) Given the base of the parallelogram is 8 units. Find the area function A(h) of the triangle in terms of height (h). Find the area of the parallelogram for h = 2 units.
- 7) Find the volume V(5) of an object whose volume is given by  $V(x) = 3x^2 + 5x^3 + 2$  where x is one of the parameters of the object.



8) An object is travelling from point A to point B for time  $\mathbf{t}$ . If the distance travelled by the object is given by the function  $\mathbf{s}(t) = t^3 + 2t^2 + 5t$  where  $\mathbf{s}(t)$  is the distance travelled after time  $\mathbf{t}$  and its units are in km. Find the distance travelled by the object for t = 2 secs.

9) Identify whether the following function is linear or nonlinear from the table for the following points.

×	1	2	3	4	7
y	3	5	7	9	15

10) The functions g(x) and h(x) are shown in the table below against input values (x).

×	1	3	4	7	10
g(x)	2	4	8	10	12
h(x)	2	3	4	5	6

Find the points as per table for which g(x) and h(x) intersect.

11) Given that f(x) = 10x + 5. Find the value of x for which f(x) = 0.

12) f(x) is a cubic function whose roots are 2, 4 and 6. Find f(x) and also find the value of f(8).

13) Given the function f(x) = f(x - 1) + f(x - 2) for x > 2. Given that f(1) = f(2) = 1. Find the value of f(5).



14) Find the function f(x) if  $f(x) = g(x)^2 + h(x)^2 + 2 g(x) h(x)$ . Given g(x) = x + 1 and h(x) = x - 1.

15) Find the function f(x) if  $f(x) = g(x)^2 + h(x)$ . Given g(x) = x + 1 and h(x) = 2x + 1. Also find f(10) - f(2).





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- Gary Schwartz

- Kirk Riley

- Barbara Cabrera

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1) f(3) = 14	2) f(4) = 6	3) f(3) = 2
4) f(x) = 6x + 2 f(10) = 62	5) $f(x) = x^3 + x$ , $f(4) = 66$	6) $A(h) = 2h$ , $A(5) = 10 \text{ units}^2$
7) $V(10) = 230 \text{ units}^3$	8) s(2) = 29 km	9) f(x) is not linear.
10) No	11) x = -2	12) $f(x) = (x - 2)(x - 3)(x - 4)$ , $f(2) = 0$
13) f(6) = 8	14) x = y - 5, for y=5, x = 0	15) $f(x) = 2x + 5$ , f(x) - g(x) = 2



# **FUN FACT**

- An easy trick to remember the order of <u>PEMDAS</u> is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

