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Function Worksheets 8th Grade

- 1) Find the value of the function f(x) = 7x + 4 when x = 2.
- 2) Find the value of f(3) if the function $f(x) = 2x^2 + 3x + 1$.
- 3) Find the value of the function $f(x) = \frac{2}{3 + 2x}$ when x = 2.
- 4) The following table shows the different outputs against different inputs. Given that the input variable and the output variable have a linear relation.

×	0	1	2	3	4
y	3	5	7	9	11

- (a) Find the function f(x) describing the input and the output.
- (b) Using this function, find the value of f(10).
- 5) Write a function f(x) whose output is the sum of the square of the input and the square root of the input. Also, find the value of f(9).
- 6) Given the length of the rectangle is 4 units. Find the area function A(b) of the rectangle in terms of breadth (b). Find the area of the rectangle for b = 5 units.
- 7) Find the volume function V(x) of the cube if the length of the cube is x units. Also, find the value of V(3).



8) A 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 $\mathbf{s}(t) = t^2 + 3t + 2$ 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 = 4 secs.

9) Identify whether the following function is linear or non-linear from the table.

×	1	2	3	4	5
y	4	5	5	2	1

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)	3	1	4	9	-3
h(x)	-2	1	-5	8	-3

Are there any solutions (outputs) common to both g(x) and h(x) as per this table? If yes, then find all x for which the solutions are common.

11) Given that f(x) = 7x + 28. Find the value of x for which f(x) = 0.

12) f(x) is a quadratic function whose roots are 2 and 4. Find f(x) and also find the value of f(1).



- 13) Given the fibonacci function f(x) = f(x 1) + f(x 2) for x > 2. Given that f(1) = f(2) = 1. Find the value of f(4).
- 14) Given that y = 2x + 3. Find x in terms of y. Then, find the value of x for y = 5.
- 15) Given functions g(x) = 9x + 5 and h(x) = 3. If f(x) = g(h(x)), find the function f(x).



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1) f(2) = 18	2) f(3) = 28	3) $f(2) = \frac{2}{7}$
4) f(x) = 2x + 3 f(10) = 23	5) $f(x) = x^2 + \sqrt{x}$, $f(9) = 84$	6) A(b) = 4b, A(5) = 20 units ²
7) $V(x) = x^3$, $V(3) = 27 \text{ units}^3$	8) s(4) = 30 km	9) f(x) is not linear.
10) Yes, x = 3 and x = 5	11) x = -4	12) f(x) = (x - 2)(x - 4), f(1) = 3
13) f(4) = 3	$\frac{14) \times = \frac{y-3}{2}}{5}$, for y=5, x = 1	15) f(x) = 32, f(10) - f(2) = 0



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.

