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Function Worksheets 8th Grade

1) Find $f(3)$ if the function $f(x) = 3x + 5$.

2) Find $f(4)$ if the function $f(x) = (x - 1)(x - 2)(x - 3)$.

3) Find the value of the function $f(x) = \frac{3 + 3x}{2x}$ 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.

x	1	5	9	11	4
y	8	32	56	68	26

(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 cube of the input and the input. Also, find the value of $f(4)$.

6) Given the height of the base is 4 units. Find the area function $A(h)$ of the triangle in terms of height (h). Find the area of the triangle for $h = 5$ units.

7) Find the $V(10)$ of an object if $V(x) = 2x^2 + 3x$ where x is one of the parameters of the object.

8) An object is travelling from point A to point B for time **t**. If the distance travelled by the object is given by the function $s(t) = 5t^2 + 2t + 5$ where $s(t)$ is the distance travelled after time **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.

x	1	2	3	4	7
y	7	8	9	10	14

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

x	1	3	4	7	10
$g(x)$	2	4	8	10	12
$h(x)$	-2	1	-2	4	3

Do the functions $g(x)$ and $h(x)$ intersect at any point as per this table? If yes, then find all x for which they intersect.

11) Given that $f(x) = 4x + 8$. Find the value of x for which $f(x) = 0$.

12) $f(x)$ is a cubic function whose roots are 2, 3 and 4. Find $f(x)$ and also find the value of $f(2)$.

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 $f(6)$.

14) Given that $y = x + 5$. Find x in terms of y . Then, find the value of x for $y = 5$.

15) Given functions $g(x) = 2x + 3$ and $h(x) = x + 1$. If $f(x) = g(h(x))$, find the function $f(x)$. Also find the value of $f(x) - g(x)$.



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ANSWERS

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) $s(2) = 29 \text{ km}$	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 PEMDAS is "Please Excuse My Dear Aunt Sally".
- Many mnemonics following order of operations are used along with PEMDAS worldwide, like BODMAS, BEDMAS, and BIDMAS.

