

# Programming Concepts

Name:

1. What is the function that takes these inputs to output these outputs?

IN | OUT

1 | 3

4 | 6

7 | 9

Answer:  $x + 2$

Link to Scratch Project : <https://scratch.mit.edu/projects/741604332>

2. Timmy made \$15 for cutting the grass three times and \$3 for raking the leaves. Write a number sentence that describes how he made the money by using  $x$  to represent how much money he made from cutting the grass?

Answer:  $3x + 3 = 15$

Link to Scratch Project : <https://scratch.mit.edu/projects/741618275>

3. If  $x = 4$ ,  $y = 2$ , and  $z = x/y$ , then what is the real value of  $z$ ?

Answer: 2

Link to Scratch Project : <https://scratch.mit.edu/projects/746972992>

4. if  $x = 12$ , then which if the following is true?

- a.  $x < 0$
- b.  $x > 0$
- c.  $x = 0$
- d. None of the above

Answer: b

Link to Scratch Project : <https://scratch.mit.edu/projects/741612108>