# Vocabulary

- 1. Function
  - 1. 函数
- 2. argument
  - 1. 实参
- 3. Parameter
  - 1. 形参
- 4. Call a function
  - 1. 调用一个函数
- 5. Pass a function an argument
  - 1. 传递给函数实参
- 6. Function definition
  - 1. 函数定义
  - 2. f(x) = 3x + 2
  - 3. x is our parameter. x是我们的形参
- 7. Function call
  - 1. 调用函数
  - 2. f(4) = 14
  - 3. 4 is our argument. 4是我们的实参
- 8. Function notation
  - 1. 函数表示法
  - 2. f(x) = ....

# **Python Functions:**

#### **Define a Function**

def times\_two(argument):
return argument \* 2

### **Call a Function**

times\_two(6)

### **Homework**

Dina is an honor student by day; but by night, she works as a teacher. Each month she gets paid \$1000 base, plus an extra \$100 for each hour she teaches. Of course, she gets paid in cash – all \$20 bills.

Let h equal the number of hours Dina teaches in a given month. Let m be the amount of money she is paid that much, in dollars. Let b be the number of \$20 bills she gets.

## **Use Math Notation & Then Python Notation To:**

Write a function m(h) that tells how much money Dina makes, in a given month, as a ction of the number of hours she teaches.
Write a function b(m) that tells how many bills Dina gets, in a given month, as a function he number of dollars she makes.
Write a composite function $b(m(k))$ that gives the number of bills Dina gets, as a function he number of hours she teaches.
If Dina teaches 5 hours in a month, how many \$20 bills does she earn? First, translate this estion into function notation – then solve it for a number.

e. If Dina earns 100 \$20 bills in a month, how many hours did she teach? First, translate this equation into function notation – then solve it for a number.