It is a good idea to read this book in front of a computer so you can try out the examples as you go.

Whenever you are experimenting with a new feature, you should try to make mistakes. For example, in the “Hello, world!” program, what happens if you leave out one of the quotation marks? What if you leave out both? What if you spell print wrong?

This kind of experiment helps you remember what you read; it also helps when you are programming, because you get to know what the error messages mean. It is better to make mistakes now and on purpose than later and accidentally.

**Question 1:**

1. If you are trying to print a string, what happens if you leave out one of the quotation marks, or both?

**Syntax error**

1. In math notation, leading zeros are okay, as in 02. What happens if you try this in Python?

**type(02.) = <type 'float'>**

**Question 2:** Start the Python interpreter and use it as a calculator.

1. How many seconds are there in 42 minutes 42 seconds?

**2562 seconds**

1. If you run a 10 kilometer race in 42 minutes 42 seconds, what is your average pace (time

per mile in minutes and seconds)? What is your average speed in miles per hour?

**6.8747 minutes/mile**

**8.72765357 miles/hour**

**Question 3:** What is the output of the following code?

>>> from math import pi

>>> r = 5  
>>> v = 4/3 \* pi \* r\*\*3

>>> print(round(v, 2))

**520**