Homework #1

1- (*Average speed in miles*) Assume a runner runs **14** kilometers in **45** minutes and **30** seconds. Write a program that displays the average speed in miles per hour. (Note that **1** mile is **1.6** kilometers.)

2- (*Area and perimeter of a rectangle*) Write a program that displays the area and perimeter of a rectangle with the width of **4.5** and height of **7.9 .**

3- (Compute the volume of a cylinder) Write a program that reads in the radius and length of a cylinder and computes the area and volume using the following formulas:
area = radius * radius * PI
volume = area * length

(Note that **PI** is **3.14**)

4- (*Find the number of years*) Write a program that prompts the user to enter the minutes (e.g., 1 billion), and displays the number of years and days for the minutes. For simplicity, assume a year has **365** days. Here is a sample run:

```
Enter the number of minutes: 1000000000 Enter
1000000000 minutes is approximately 1902 years and 214 days
```

5- (Print a table) Write a program that displays the following table:

a	b	pow(a, b)
1	2	1
2	3	8
3	4	81
4	5	1024
5	6	15625