Paycheck Calculator 3.0

Create a program that calculates a user's weekly gross and take-home pay by defining a class *Paycheck*.

Note: **Bold** words are output while non-bold words are input in the following console sample.

Console Sample

```
Paycheck Calculator 3.0

Hours Worked: 35.4
Hourly Pay Rate: 14.5
Tax Rate in percent (0-100): 18.8

Gross Pay: 513.3
Tax Rate: 18.8%
Tax Amount: 96.5004
Take Home Pay: 416.8
```

Specifications

- You have to define a class *Paycheck* with three private data members corresponding to hours worked, hourly rate, and tax rate.

- Declare and define a non-default constructor which requires three parameters corresponding to the three private data members respectively for the class *Paycheck*.

- Declare and define all the necessary getter and setters for private members in the class *Paycheck*.

- Declare and define a public member function in the class *Paycheck* to calculate gross pay. The formula for calculating gross pay is:

  `gross pay = hours worked * hourly rate`

- Declare and define a public member function in class *Paycheck* to calculate tax amount. The formula for calculating tax amount is:

  `tax amount = gross pay * (tax rate / 100)`

- Declare and define a public member function in class *Paycheck* to calculate take home pay. The formula for calculating take home pay is:

  `take home pay = gross pay – tax amount`

- Declare and define a public member function in class *Paycheck* to display all the results (as shown in the console sample above).

- In the *main()*, you must first create a *Paycheck* object based on user's input and then call the member function to display all the results on the object. This's all you are allowed to do in the *main()*.

- The program should accept decimal entries like 35.5 and 14.25.

- Assume the user will always enter a valid number for each numeric input.