# WORKSHEET #3

## Assumes: Ch1, Ch2, Ch3

In Lab3b you were introduced to GregorianCalendar class as follows:

*The GregorianCalendar class is included in java.util package.*

*It describes a point in time, as measured by the Gregorian calendar - the standard calendar that is commonly used throughout the world today.*

*You construct a GregorianCalendar object from a year, month, and a day of the month, like this:*

*GregorianCalendar myDate = new GregorianCalendar(); // Today's date*

*GregorianCalendar independenceDay = new GregorianCalendar(1776, Calendar.JULY, 4);*

*Use the values Calendar.JANUARY, ... , Calendar.DECEMBER to specify the month*

*The add method can be used to add a number of days to a GregorianCalendar object:*

*myDate.add(Calendar.DAY\_OF\_MONTH, 10); // now myDate is ten days from today*

*Note that add is a mutator method - it changes the myDate object*

*The get method can be used to query a given GregorianCalendar object:*

*int dayOfMonth = myDate.get(Calendar.DAY\_OF\_MONTH);*

*int month = myDate.get(Calendar.MONTH);*

*int year = myDate.get(Calendar.YEAR);*

*int weekday = myDate.get(Calendar.DAY\_OF\_WEEK); // 1 is Sunday, 2 is Monday, ... , 7 is Saturday*

The GregorianCalendar class is complex, and it is a really good idea to explore the API before utilizing it to solve a given problem.

1. Go to java API <http://docs.oracle.com/javase/7/docs/api/> and locate documentation for the GregorianCalendar class
2. Go over the description of the class, do you have any questions?
3. Explore the available constructors, do you have any questions?
4. Explore the available methods, do you have any questions?
5. Select ten methods and try them out in a test program, do they behave the way you expected? Did you have any difficulties using them?
6. Discuss and compare your findings with your peers
7. ☺