Class Fields and Methods

1. What is the difference between the declaration of a class method and that of an instance method?

2. Assume that methods in a class have been declared with the `public` modifier. From outside that class, how would we refer to
   a) a class method?
   b) an instance method?

3. Write definitions for the following <u>class methods</u> that could be used in the `Fraction` class.
   a) The method product should have two `Fraction` parameters. It should return a value of type `Fraction`, the product of the parameters passed to it.
   b) The method `abs` should have a single `Fraction` parameter. It should return a value of type `Fraction` in which any negative fields in the parameter have been replaced by their absolute values.
   c) The method `isPositive` should have one `Fraction` parameter. It should return a `boolean` value: `true` if its parameter represents a positive fraction and `false` otherwise.

4. What is the difference between the declaration of a class field and that of an instance field?

5. Assume the fields in a class have been declared with the `public` modifier. From outside that class, how would we refer to
   a) a class field?
   b) an instance field?