

## Q/A

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### 1 The Keyword "static"

1. What does the "static" keyword mean?
  - (a) It is associated with objects of class.
  - (b) It is used to show that a method cannot be changed.
  - (c) It is shared by all instances of a class.
  - (d) It is a method that can be called by the class itself, and does not have to be instantiated.
  - (e) a, c, and d
  - (f) All of the above.
2. What should the static methods be used?
  - (a) As sparingly as possible.
  - (b) When you don't want the method to stay static.
  - (c) When you have a variable or value that represents some state of class (all instances of the class would have the same value for that variable).
  - (d) Whenever you need to call a final class.
3. Can you use the "static" key word in an abstract method?
  - (a) Yes, but not including the modifiers: final, static, native, synchronized, or private.
  - (b) No, and the following modifiers cannot be used either: final, static, native, synchronized, or private.

- (c) Yes, including the modifiers (final, static, native, synchronized, or private).
  - (d) No, but you may use the modifiers mentioned above.
4. Can you use ".this" in a static method?
- (a) Yes.
  - (b) No.
5. Explain why you cannot have a static method in a "non-static" inner class.