

**QUIZ #02**  
**CSCI-410 Spring 2013**

1. When using the method of repeated division by the number base to convert a number from one base to another: (a) Do we divide by the number base we are converting from or the number base we are converting to? (b) Do we do the math in the number base we are converting from or the number base we are converting to? (c) Should we use this for converting from base ten to another base, or from another base to base ten?
  
2. When using the method of repeated multiplication by the number base to convert a number from one base to another: (a) Do we multiply by the number base we are converting from or the number base we are converting to? (b) Do we do the math in the number base we are converting from or the number base we are converting to? (c) Should we use this for converting from base ten to another base, or from another base to base ten?
  
3. Convert 9876543210 to base 2, 8, and 16. In your base-2 answer, leave a space between each set of four bits (counting from the right).