Remarks:

- The first four problems in the quiz will be identical to the following four problems but with different numbers and bases.
- In the quiz there will be two additional problems that are different from these sample problems.

1. Write the decimal number $(22)_{10}$ in its binary (base-2) and its ternary (base-3) representations.

2. Write the twelve decimal numbers $(1)_{10}, (2)_{10}, \ldots, (12)_{10}$ in their base-4 representation.

3. Which number is larger $(321)_{4}$ or $(11001)_{2}$?

4. In the base-13 system: $A = 10, B = 11, \text{ and } C = 12$. What is the decimal value of the number $(CAB)_{13}$?