Functions

1. What is the meaning of a function being $1-1$ (also called "injective")?

2. What is the meaning of a function being onto (also called "surjective")?

3. Consider the set of functions from $\{a, b, c\}$ to the days of the week:
   3.1 How many are there?
   3.2 Are any of these functions injective? (If so, define it.)
   3.3 Are any of these surjective? (If so, define it.)