## 5.3

- 2. Let  $S = \{100, 101, 102, ..., 999\}$  so that |S| = 900.
  - (a) How many numbers in S have at least one digit that is a 3 or a 7?
  - (b) How many numbers in S have at least one digit that is a 3 and at least one digit that is a 7?
- 4. An investor has 7 \$1000 bills to distribute among 3 mutual friends.
  - (a) In how many ways can she invest her money?
  - (b) In how many ways can she invest her money if each fund must get at least \$1000.