

1.

(a) [1] {9}

(b) [1] 8; since {1, 3, 5, 6, 7, 8, 9, 10}

2. Consider the following questions on the multiplication rule, permutations and combinations.

(a) [1] $10^4 - 109990$

(b) [1] **order matters; sampling with replacement.**

(c) [1] $9! = 362880$

(d) [1] $C(4, 3) = 4$