

Answer Key

1. How many different 4-digit odd numbers are there in which no digit is repeated?

$$8 \times 8 \times 7 \times 5 = 2240$$

2. How many different 3 digit numbers are there with no repeated digits?

$$9 \times 9 \times 8 = 648$$

3. Telephone area codes consist of three digits. Suppose the first digit is from 2-9 inclusive, the second digit is any digit except the first, and the third digit is either a 0 or a 1. How many different area codes are possible?

$$8 \times 9 \times 2 = 144$$