

Calculating Probability 3

You just purchased a new bicycle. You run over to Target to buy a lock with a 3-digit code.

1. If the digits are 0 – 9 and digits can be repeated, how many codes are possible?
 2. What is the probability you get the lock with code 3 - 4 - 5?
 3. What is the probability you get the lock with code 7 - 7 - 7?
4. If the digits are 0 – 9 and digits can't be repeated, how many codes are possible?
 5. What is the probability you get the lock with code 6 - 0 - 2?
 6. What is the probability you get the lock with code 8 - 3 - 3?
7. If the digits are 1 – 9 and digits can be repeated, how many codes are possible?
 8. What is the probability you get the lock with code 9 - 5 - 5?
 9. What is the probability you get the lock with code 1 - 4 - 7?
 10. What is the probability you get the lock with code 6 - 9 - 0?
11. If the digits are 1 – 9 and digits can't be repeated, how many codes are possible?
 12. What is the probability you get the lock with code 9 - 5 - 5?
 13. What is the probability you get the lock with code 1 - 4 - 7?
 14. What is the probability you get the lock with code 6 - 9 - 0?

You just bought a new car and need to purchase a license plate. Basic plates have 7 digits.

15. How many plate options are there if digits are 0 - 9 without repetition?
 16. What is the probability of receiving plate number: 1234567 ?
 17. What is the probability of receiving plate number: 1133557 ?
 18. What is the probability of receiving plate number: 12345678 ?
19. How many plate options are there if digits are 0 - 9 with repetition?
 20. What is the probability of receiving plate number: 1234567 ?
 21. What is the probability of receiving plate number: 1133557 ?
 22. What is the probability of receiving plate number: 12345678 ?
23. How many plate options are there if all characters are letters, without repetition?
 24. What is the probability of receiving plate number: ILVMATH ?
 25. What is the probability of receiving plate number: YIPPEEE ?
 26. What is the probability of receiving plate number: I8TACOS ?
27. How many plate options are there if all characters are letters, with repetition?
 28. What is the probability of receiving plate number: ILVMATH ?
 29. What is the probability of receiving plate number: YIPPEEE ?
 30. What is the probability of receiving plate number: I8TACOS ?

31. How many plate options are there if the first 3 characters are digits 0 - 9 and the last 4 are letters, without repetition?
- 32. What is the probability of receiving plate number: 123ABCD ?
 - 33. What is the probability of receiving plate number: 1234567 ?
 - 34. What is the probability of receiving plate number: 111AAAA ?
35. How many plate options are there if the first 3 characters are digits 0 - 9 and the last 4 are letters, with repetition?
- 36. What is the probability of receiving plate number: 123ABCD ?
 - 37. What is the probability of receiving plate number: 1234567 ?
 - 38. What is the probability of receiving plate number: 111AAAA ?
39. How many plate options are there if the first 3 characters are digits 1 - 9 and the last 4 are letters, without repetition?
- 40. What is the probability of receiving plate number: 123ABCD ?
 - 41. What is the probability of receiving plate number: 0123456 ?
 - 42. What is the probability of receiving plate number: 111AAAA ?
43. How many plate options are there if the first 3 characters are digits 1 - 9 and the last 4 are letters, with repetition?
- 44. What is the probability of receiving plate number: 123ABCD ?
 - 45. What is the probability of receiving plate number: 012WXYZ ?
 - 46. What is the probability of receiving plate number: 111AAAA ?
47. A license plate has 6 digits. The first 4 characters are digits 1 - 9 and the last 2 are letters, with repetition. What is the probability you get plate number: 3592AX ?
48. A license plate has 6 digits. The first 2 characters are digits 0 - 9 and the last 4 are letters, with repetition. What is the probability you get plate number: 32ATBX ?
49. A license plate has 6 digits. The first 2 characters are digits 1 - 9 and the last 4 are letters, without repetition. What is the probability you get plate number: 45PPQR ?
50. A license plate has 6 digits. The first 3 characters are digits 0 - 9 and the last 3 are letters, without repetition. What is the probability you get plate number: 953ASD ?
51. A license plate has 6 digits. The first 3 characters are digits 1 - 9 and the last 3 are letters, without repetition. What is the probability you get plate number: 208BCD ?
51. A license plate has 8 digits. The first 3 characters are digits 1 - 9 and the last 5 are letters, without repetition. What is the probability you get plate number: 208ABCDE ?