

# Python Dictionary Mastery Practice Questions

## Beginner (Q110)

1. Create an empty dictionary and add 3 key-value pairs.
2. Retrieve the value of a specific key.
3. Update the value of an existing key.
4. Delete a key from a dictionary.
5. Check if a key exists in the dictionary.
6. Iterate over keys and print them.
7. Iterate over values and print them.
8. Iterate over key-value pairs and print them.
9. Get all keys as a list.
10. Get all values as a list.

## Intermediate (Q1120)

11. Count the frequency of characters in a string and store in a dictionary.
12. Merge two dictionaries.
13. Sort a dictionary by values.
14. Create a dictionary from two lists: one of keys, one of values.
15. Remove all duplicate values in a dictionary.
16. Swap keys and values in a dictionary.
17. Group words by their first letter using a dictionary.
18. Convert a list of tuples to a dictionary.
19. Find the key with the maximum value.
20. Find all keys that have a specific value.

## Advanced Logic (Q2130)

21. Create a nested dictionary representing student records (name, marks, grade).

22. Access and update nested values in a dictionary.
23. Count word frequencies from a sentence.
24. Build a dictionary of lists (e.g. employees grouped by department).
25. Build an inverted index (word list of sentence numbers where it appears).
26. Filter a dictionary to only keep items with values above a threshold.
27. Create a dictionary where keys are numbers from 1 to n and values are their squares.
28. Find common keys in two dictionaries.
29. Create a dictionary with frequency count of list items grouped by number of times they occur.
30. Build a mini JSON-like object using a nested dictionary (e.g. product info with name, price, tags).