1- {}

2- {'foo': 42}

3- The items stored in a dictionary are unordered, while the items in a list are ordered.

4- You get a KeyError error

5- There is no difference. The in operator checks whether a value exists as a key in the dictionary.

6- 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7- spam.setdefault('color', 'black')

8- pprint.pprint()