

1. In the worst case, we'll guess 10 times. Suppose we get it wrong every time and don't find the right answer until we've used up all ten numbers.

2. In the worst case, 4 times, let's say the first time was 5, no, guess 3, no, guess 1 or 2 or 4, and finally get the right answer, 4 times in total. 10/2/2/2.