**QuickSort1 Worksheet – Answer Sheet**

1.

a.The Dividing Value = **\_\_\_20\_\_\_\_**

b.

**7 18 20 24 24 43 56 65 24 31**

c.

first = **1** ; h = **4**

g = **4** ; last = **9**

2.

**If we focus on one item in a list of N values, quicksort will take log2N recursive calls to split the list in half repeatedly until the item is in a list of one. This cost of moving a value to its correct spot is required for all N values in the list. Hence the order is:**

**N \* log2N.**