

Frequency of Letters in Ciphertext for Exercise Set #1, Exercise B

**Arranged
alphabetically**

Letter	Frequency (per 10,000 letters)
A	839
B	333
C	237
D	344
E	0
F	290
G	366
H	129
I	688
J	602
K	839
L	11
M	11
N	269
O	43
P	183
Q	495
R	1398
S	151
T	452
U	140
V	22
W	226
X	419
Y	613
Z	903

**Arranged in order of
decreasing frequency**

Letter	Frequency (per 10,000 letters)
R	1398
Z	903
K	839
A	839
I	688
Y	613
J	602
Q	495
T	452
X	419
G	366
D	344
B	333
F	290
N	269
C	237
W	226
P	183
S	151
U	140
H	129
O	43
V	22
L	11
M	11
E	0

There were a total of 930 letters in the text. However, the frequencies have been normalized to occurrences per 10,000 characters of text. Thus, for example, a frequency of 11 in the table corresponds to 1 occurrence of the letter in the ciphertext.