

KEY

Practice Huffman encoding

1. Given the following coding scheme, find the word represented by the given encodings.

- a: 001
- b: 0001
- e: 1
- r: 0000
- s: 0100
- t: 011
- x: 01010

(a) 01000110010000
 s t a r

(b) 1010100110000001
 e x t r a

2. Use Huffman coding to encode these symbols with given frequencies:

- ~~a: 37~~
- ~~b: 18~~ ←
- ~~c: 29~~
- ~~d: 13~~ ←
- ~~e: 30~~
- ~~f: 17~~ ←
- ~~g: 6~~ ←
- ~~gd 19~~
- ~~fb 35~~
- ~~gdc 48~~
- e f b 65
- a g d c 85

