

# L11 Exercise

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## 3

a. 100 bytes

b.  $bf_r = \lfloor 4096/90 \rfloor = 40$

c.

1.  $B_r = \lceil 10000/40 \rceil = 250$

2. 250

3. 250

4.  $250/0.8 = 313$

d.

1.  $\lceil \log_2 250 \rceil = 8$

2.  $250/2 = 125$

3. 1

## 4

a. 18 bytes

b.  $\lfloor 128/18 \rfloor = 7$

c.  $\lceil 10000/7 \rceil = 1429$

d.  $\lceil \log_2 1429 \rceil = 11$