1.

2+2

1 1 1 0 0 0 0 0 0 0 0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0

V B V B V B V

2. a) For Synchronous-

we have, $1000 \times 8 = 8000$ bits

b) we have, $1000 \times 10 = 10000$ bits
one start and one stop bit

c) Redundancy ~~prose~~ percent in each case

$1000 \times 10 = 10000$ bits.