

# Question 1

- a) Write down an expression for the minimum interpacket gap,  $g$ , so we can be sure that the buffer will never overflow.
- b) Write down an expression for the size of the buffer,  $B$ , in bits so we can be sure that the buffer will never overflow.
- c) If the gap is a random variable,  $G$ , where  $E[G] = 2g$  from part (a), can you find  $B$  so that the buffer will never overflow?