

tec 1. A counter is set to count gamma rays from a radioactive source. The total number of counts, including background, recorded in each 1-minute interval is listed in the table below. An independent measurement of the background in a 5-minute interval gave 58 counts. From the data find:

- (a) The mean background in a 1-minute interval **and** its uncertainty;
- (b) The corrected counting rate from the source alone **and** its uncertainty.

Trial	1	2	3	4	5	6	7	8	9	10
Total counts	125	130	105	126	128	119	137	131	115	116