

Probability

Click on a question number to see how your answers were marked and, where available, full solutions.

Question Number	Score
Question 1	2 / 2
Question 2	6 / 6
Total	8 / 8 (100%)

Performance Summary

Exam Name:	Probability
Session ID:	19010532469
Student's Name:	Makolo, Daniella (dom10)
Exam Start:	Thu Nov 23 2023 22:29:06
Exam Stop:	Thu Nov 23 2023 22:46:44
Time Spent:	0:17:38

Question 1

Suppose that we toss a fair coin 8 times. State the probability that

a)
we obtain exactly 8 tail(s)

1/256 ✓

Expected answer: 1/256

✓ Your answer is correct. You were awarded 1 mark.
You scored 1 mark for this part.

Score: 1/1 ✓

b)
we obtain less than 4 head(s)

93/256 ✓

Expected answer: 93/256

✓ Your answer is correct. You were awarded 1 mark.
You scored 1 mark for this part.

Score: 1/1 ✓

Question 2

The latency of a network connection is tested. The results follow a normal distribution and show a mean of 941ms, with a variance of 3600ms².

Fill in the gaps for the following statements.

a)

At any given time the latency has a 70% chance to lie within

881



Expected answer: 881

and

1001



Expected answer: 1001

Gap 0



Your answer is correct. You were awarded 1 mark.

Gap 1



Your answer is correct. You were awarded 1 mark.

You scored 2 marks for this part.

Score: 2/2

b)

At any given time the latency has a 95% chance to lie within

821



Expected answer: 821

and

1061



Expected answer: 1061

Gap 0



Your answer is correct. You were awarded 1 mark.

Gap 1



Your answer is correct. You were awarded 1 mark.

You scored 2 marks for this part.

Score: 2/2

c)

At any given time the latency has a 99.7% chance to lie within

761



Expected answer: 761

and

1121



Expected answer: 1121

Gap 0



Your answer is correct. You were awarded 1 mark.

Gap 1



Your answer is correct. You were awarded 1 mark.

You scored 2 marks for this part.

Score: 2/2