

Commentary on candidate evidence

The evidence for this candidate has achieved the following marks for each question of this course assessment component.

Question 1

Candidate 1

The candidate was awarded **1/3 marks**.

- ✗ ●¹ Mark 1 was not awarded because the monthly interest rate is incorrect.
- ✗ ●² Mark 2 was not awarded because the candidate has added the repayment and capital content of repayment.
- ✓ ●³ Mark 3 was awarded because the candidate continued to follow the same process.

Candidate 2

The candidate was awarded **2/3 marks**.

- ✗ ●¹ Mark 1 was not awarded because the monthly interest rate is incorrect.
- ✓ ●² Mark 2 was awarded because the candidate calculated the loan outstanding at the end of month 1.
- ✓ ●³ Mark 3 was awarded because the candidate calculated the loan outstanding at the end of month 2.

Question 2

Candidate 3

The candidate was awarded **5/6 marks**.

- ✓ ●¹ Mark 1 was awarded as six are correct and in sequence with duration.
- ✓ ●² Mark 2 was awarded as the remaining four are in the correct sequence.
- ✓ ●³ Mark 3 was awarded as the forward scan A - E is correct.
- ✓ ●⁴ Mark 4 was awarded as the forward for the remaining five is correct.
- ✗ ●⁵ Mark 5 was not awarded as the backward scan I to G is incorrect.
- ✓ ●⁶ Mark 6 was awarded as the backward scan for the remaining five is consistent with the previous working.

Question 2(b)

Candidate 4

The candidate was awarded **0/1 marks**.

- × ●⁷ Mark 7 was not awarded because the candidate's answer was based on 36 days leading to 4. (See note 3 in marking instructions).

Question 2(c)

Candidate 5

The candidate was awarded **3/3 marks**.

- ✓ ●⁸ Mark 8 was awarded for activity labels and plot A, B and C.
- ✓ ●⁹ Mark 9 was awarded because the candidate correctly interpreted the start times for D, E, I and J.
- ✓ ●¹⁰ Mark 10 was awarded for providing a completed Gantt chart.

Candidate 6

The candidate was awarded **1/3 marks**.

- × ●⁸ Mark 8 was not awarded because the candidate did not add labels.
- ✓ ●⁹ Mark 9 was awarded because the candidate correctly interpreted the start times for D, E, I and J.
- × ●¹⁰ Mark 10 was not awarded because activity F was not plotted correctly. (See note 3 in marking instructions).

Candidate 7

The candidate was awarded **2/3 marks**.

- ✓ ●⁸ Mark 8 was awarded for the activity labels and plot A, B and C.
- ✓ ●⁹ Mark 9 was awarded for the correct interpretation of start times of D, E, I and J.
- × ●¹⁰ Mark 10 was not awarded because activity F was not plotted correctly. (See note 3 in marking instructions).

Question 3(a)

Candidate 8

The candidate was awarded **0/1 marks**.

- × ●¹ Mark 1 was not awarded as the candidate gave an incorrect answer.

Question 3(b)

Candidate 9

The candidate was awarded **0/1 marks**.

- × •² Mark 2 was not awarded because the candidate's explanation is incomplete.

Question 3(c)

Candidate 10

The candidate was awarded **0/1 marks**.

- × •³ Mark 3 was not awarded because the candidate stated the wrong statistical test.

Question 3(d)

Candidate 11

The candidate was awarded **0/1 marks**.

- × •⁴ Mark 4 was not awarded. The candidate implied that the sample sizes need to be the same which is not appropriate for a z-test for two proportions.

Question 3(e)

Candidate 12

The candidate was awarded **1/1 marks**.

- ✓ •⁵ Mark 5 was awarded because the candidate provided a valid explanation.

Question 4(a)

Candidate 13

The candidate was awarded **3/3 marks**.

- ✓ •¹ Mark 1 was awarded because method 2 was used (accumulate initial deposit).
- ✓ •² Mark 2 was awarded because method 2 was used (accumulate second deposit).
- ✓ •³ Mark 3 was awarded because method 2 was used (accumulate third deposit and calculate balance).

Question 4(b)

Candidate 14

The candidate was awarded **2/2 marks**.

- ✓ •⁴ Mark 4 was awarded because the candidate correctly calculated the balance.
- ✓ •⁵ Mark 5 was awarded because the candidate correctly calculated the interest rate.

Candidate 15

The candidate was awarded **0/2 marks**.

- × •⁴ Mark 4 was not awarded because the candidate's calculation of the balance is incorrect.
- × •⁵ Mark 5 was not awarded because the candidate did not state the interest rate.

Candidate 16

The candidate was awarded **1/2 marks**.

- ✓ •⁴ Mark 4 was awarded because the candidate correctly calculated the balance.
- × •⁵ Mark 5 was not awarded because the candidate did not state the interest rate.

Question 5(a)

Candidate 17

The candidate was awarded **3/3 marks**.

- ✓ •¹ Mark 1 was awarded for the calculation of the appropriate % school roll at the end of the year.
- ✓ •² Mark 2 was awarded because the candidate used an appropriate formula in C15.
- ✓ •³ Mark 3 was awarded because the candidate calculated the school roll in August 2031.

Question 5(b)

Candidate 18

The candidate was awarded **1/1 marks**.

- ✓ •⁵ Mark 5 was awarded because the candidate stated the correct answer.

Question 5(c)(i)

Candidate 19

The candidate was awarded **2/2 marks**.

- ✓ •⁶ Mark 6 was awarded, spreadsheet has been extended.
- ✓ •⁷ Mark 7 was awarded, graph constructed.

Question 5(c)(ii)

Candidate 20

The candidate was awarded **0/1 marks**.

- × •⁸ Mark 8 was not awarded because the candidate did not create a graph.

Question 6(a)

Candidate 21

The candidate was awarded **0/1 marks**.

- × •¹ Mark 1 was not awarded because the strategy is incorrect.

Question 6(b)

Candidate 22

The candidate was awarded **0/2 marks**.

- × •² Mark 2 was not awarded because the strategy is incorrect.
- × •³ Mark 3 was not awarded because the answer has incorrect units.

Candidate 23

The candidate was awarded **1/2 marks**.

- ✗ ●² Mark 2 was not awarded because there was an error in the candidate's working.
- ✓ ●³ Mark 3 was awarded because the candidate's answer has the correct units.

Question 7(a)(i)

Candidate 24

The candidate was awarded **1/2 marks**.

- ✓ ●¹ Mark 1 was awarded for the scatterplot.
- ✗ ●² Mark 2 was not awarded as the title is inappropriate.

Question 7(b)(i)

Candidate 25

The candidate was awarded **1/2 marks**.

- ✓ ●⁴ Mark 4 was awarded because the correlation coefficient has been generated.
- ✗ ●⁵ Mark 5 was not awarded because the candidate did not state the correlation coefficient.

Question 7(d)

Candidate 26

The candidate was awarded **0/1 marks**.

- ✗ ●¹⁰ Mark 10 was not awarded because the candidate did not use statistical language.

Question 8(a)

Candidate 27

The candidate was awarded **2/3 marks**.

- ✓ ●¹ Mark 1 was awarded because the taxable income has been calculated.
- ✗ ●² Mark 2 was not awarded because the annual taxable income used was incorrect.
- ✓ ●³ Mark 3 was awarded because the candidate correctly calculated the taxable pay.

Question 8(b)

Candidate 28

The candidate was awarded **0/3 marks**.

- ✗ •⁴ Mark 4 was not awarded because the calculation for the monthly pension contribution is incorrect.
- ✗ •⁵ Mark 5 was not awarded as an incorrect strategy was used.
- ✗ •⁶ Mark 6 was not awarded as an incorrect strategy was used.

Question 9(a)

Candidate 29

The candidate was awarded **3/4 marks**.

- ✓ •¹ Mark 1 was awarded because the monthly interest rate has been calculated.
- ✓ •² Mark 2 was awarded because the formula has been created for interest, repayment and balance.
- ✓ •³ Mark 3 was awarded because the remainder of the loan schedule has been completed.
- ✗ •⁴ Mark 4 was not awarded because the rounding is incorrect.

Question 9(b)

Candidate 30

The candidate was awarded **3/3 marks**.

- ✓ •⁵ Mark 5 was awarded because the spreadsheet was populated with appropriate values.
- ✓ •⁶ Mark 6 was awarded because the formula has been set up and copied.
- ✓ •⁷ Mark 7 was awarded because the annual effective interest rate has been calculated.

Question 9(c)

Candidate 31

The candidate was awarded **2/2 marks**.

- ✓ •⁸ Mark 8 was awarded, appropriate reason stated.
- ✓ •⁹ Mark 9 was awarded, second appropriate reason stated.

Question 10(a)

Candidate 32

The candidate was awarded **2/2 marks**.

- ✓ ●¹ Mark 1 was awarded because the multiplying factor was calculated.
- ✓ ●² Mark 2 was awarded because the candidate calculated the population in 2022 and stated a conclusion

Candidate 33

The candidate was awarded **1/2 marks**.

- × ●¹ Mark 1 was not awarded as the candidate used an incorrect multiplying factor.
- ✓ ●² Mark 2 was awarded because the candidate calculated the population in 2022 and stated a conclusion

Question 10(b)

Candidate 34

The candidate was awarded **0/3 marks**.

- × ●³ Mark 3 was not awarded as an incorrect adult lifetime has been stated.
- × ●⁴ Mark 4 was not awarded as no assumptions were made about the number of termites and ants.
- × ●⁵ Mark 5 was not awarded as the candidate did not provide an estimate of the number of termites and ants eaten.

Candidate 35

The candidate was awarded **1/3 marks**.

- ✓ ●³ Mark 3 was awarded, estimate given for total amount of food eaten in adulthood.
- × ●⁴ Mark 4 was not awarded as no assumptions were made about the number of termites and ants.
- × ●⁵ Mark 5 was not awarded as the candidate did not provide an estimate of the number of termites and ants eaten.