

Essential Skills Wales
Essential Application of Number Skills (EAoNS)
Level 3 Controlled Task
Assessor Pack

Investigating Accommodation Options

Sample
Version 2.0

Produced jointly by the four Essential Skills awarding bodies:

Agored Cymru
City & Guilds
Pearson
WJEC



1 Assessment requirements

The following is a summary of the Essential Skills Wales (ESW) Controlled Task Conditions. These requirements should be read in conjunction with the relevant **Controlled Task Candidate Pack**. General assessment guidelines applicable to all ESW assessments can be found in the **Essential Skills Wales Suite Qualification Handbook**.

Controlled task assessment

Controlled tasks are **summative assessments** measuring subject-specific skills. Candidates will need to show they can utilise these skills in a holistic manner, relevant to real-life circumstances. The assessment outcome is **pass/fail**.

Controlled tasks must be:

- internally assessed, by appropriately qualified staff, using the Marking Schemes provided. Please see section 2.2 of the **Qualification Handbook** for details of staff qualification.
- internally quality assured, by appropriately qualified staff.
- externally quality assured/moderated by City & Guilds
- compliant with **Controlled Task Conditions**.

Controlled task conditions

This controlled task must be completed under the conditions set out below. 'Controlled' relates to all aspects of how the task is administered and assessed.

Candidates should only attempt this controlled task when they have been registered for this qualification and have developed the necessary skills at the required level. Learning development input should be completed before the candidate attempts this controlled task. This controlled task must normally be completed before the confirmatory test is attempted.

Working period

The candidate must complete this controlled task within an 8 week 'working period'. The working period commences on the date the candidate starts working on the task. The working period may be extended only in specific extenuating circumstances. Please see section 4.3 of the **Qualification Handbook** for further information.

Working time

The candidate has up to **8 hours in total** to complete this controlled task. This task 'working time' allowance will formally start at the point when a task is first provided to the candidate. The task working time may be extended only in specific extenuating circumstances. Please see section 4.3 of the **Qualification Handbook** for further information.

Supervised conditions

This controlled task must be completed under the following supervised conditions:

- This task is an 'open book' assessment. Candidates may have access to routine resources that might be available in a 'real life' situation, for example: PCs/laptops, tablets, dictionaries, calculators, reference books, relevant class notes and source material approved by their tutor/assessor so long as they are

not designed *specifically* to assist with this assessment and do not compromise independent achievement of the standard. Mobile phones or other transmitting/receiving devices are not permitted. The candidate can access the Internet using supervised facilities.

- The environment within which tasks are completed must be supervised. This supervision must be **continuous** and ensure no interruption and/or undue influence is possible whilst candidates are working on the task. Suitable locations might include a classroom, a library or a workplace as long as an appropriate environment and supervision is maintained. For the avoidance of doubt, this environment does not require formal 'examination' conditions.
- The supervisor must be a reliable, responsible person who is accountable for ensuring adequate supervision and control of the environment is maintained. The supervisor must be present throughout the working time and be able to confirm that each candidate produced all work independently. The supervisor can be the candidate's tutor and/or assessor or another suitable person.
- This controlled tasks may be completed in one session or split over several sessions, as long as no learning or preparation is provided in between. If not completed in one sitting, the candidate's papers and all materials produced by the candidate must be collected in and stored securely until the next working time session begins. On no account may candidates take any of their work away with them between sessions, for example to work on a task at home.
- The working period and working time taken to complete this controlled task must be monitored and recorded as indicated on the front page of the **Candidate Pack** and **Assessment Record**. The candidate, supervisor, assessor and center details must be completed and the declarations must be signed and dated before completed tasks are submitted for assessment.

Assistance and access arrangements

Assessors may provide candidates with the opportunity to clarify task requirements during the working period however this must not extend to any form of formative feedback. For example, recommending that a candidate should review their calculations would be inappropriate, whereas recommending the candidate re-read a particular section of the task requirements would be acceptable. Please see section 4.6 of the **Qualification Handbook** for further information on access arrangements.

Second and subsequent attempt

A specific controlled task can be attempted only once. However, a candidate may undertake a different controlled task, (either another title from the City & Guilds pre-approved bank or a center devised assessment that has been approved by City & Guilds) at another time if they do not pass. Wherever the candidate is unsuccessful, they **must** undergo further development in the relevant skill(s) before re-attempting at a later date.

Collaboration

This controlled task requires the candidate to work individually.

2 Mark scheme

Essential Application of Number Skills at Level 3

Controlled Task Assessment Criteria

Task: Investigating Accommodation Options

Part 1 (maximum 6 marks)		
The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none"> planning how to tackle a problem by breaking it down into a series of tasks (N3.1.1b) 	<p>1 mark: candidate produces a plan with clear structure showing the problem broken down into a series of logical steps, e.g. list, spider chart, table, flow diagram</p>	A
	<p>2 marks: candidate produces a detailed and relevant plan for all aspects of the task</p> <p>OR</p> <p>1 mark: candidate produces a detailed and relevant plan with one aspect omitted, e.g. one key step</p>	B
<ul style="list-style-type: none"> selecting and critically comparing relevant information (N3.1.1d) 	<p>1 mark: candidate shows evidence of selecting relevant information e.g. describes selection of relevant data</p>	C
<ul style="list-style-type: none"> choosing relevant methods (N3.1.1f) 	<p>2 marks: candidate justifies choice of methods, e.g. choice of plan format, data, calculation methods, presentation methods</p> <p>OR</p> <p>1 mark: candidate shows evidence of choice of methods with no justification</p>	D

Part 2 (maximum 19 marks)		
The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none"> collecting, obtaining, selecting and recording relevant data and information from different sources (N3.1.2d) 	<p>2 marks: candidate shows evidence of correctly selecting relevant data from at least two of tables, charts, graphs or diagrams e.g. median price from graph, (£)164000 ± (£)2000 and e.g. selects a correct conversion rate for area measure</p> <p>May be seen anywhere in the task</p> <p>OR</p> <p>1 mark: candidate shows evidence of correctly selecting relevant data from one of tables, charts, graphs or diagrams</p> <p>May be seen anywhere in the task</p>	E
<ul style="list-style-type: none"> using at least one large data set of a size appropriate to a planned activity, and use this to meet the purpose of the activity (N3.1.2e) 	<p>1 mark: candidate selects relevant information from the large data set in a way that suits their purpose</p> <p>e.g. correct price of 3-bedroom house with floor area $\geq 120 \text{ m}^2$ (1291 ft²)</p> <p>May be seen anywhere in the task</p>	F
<ul style="list-style-type: none"> grouping data into classes of width appropriate to the data (N3.1.2g) 	<p>2 marks: candidate correctly groups all relevant data into classes appropriate to the data</p> <p>May be seen anywhere in the task.</p> <p>OR</p> <p>1 mark: candidate groups relevant data into classes appropriate to the data with no more than two errors or omissions</p> <p>May be seen anywhere in the task</p>	G
<ul style="list-style-type: none"> carrying out at least one calculation without using a calculator (N3.2) 	<p>1 mark: candidate shows evidence of correct calculation without using a calculator appropriate to the level of the task</p>	H

The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none"> comparing distributions using measures of average and interquartile range and estimating mean, median and range of grouped data (N3.2n) 	<p>1 mark: candidate begins correct process to find an average/IQR e.g. correct fx value seen for each class e.g. for median/IQR, correct cumulative frequencies See example working below</p> <p>1 mark: candidate uses complete correct process to find an average/IQR e.g. correct Σfx value seen e.g. complete correct method for finding a median/IQR See example working below</p> <p>1 mark: correct answer for median/IQR See example working below</p>	J
<ul style="list-style-type: none"> calculating within and between systems and making accurate comparisons (N3.2j) 	<p>1 mark: candidate uses correct process to convert between square feet and square metres e.g. $120 \div 0.0929 (= 1291.711518 \text{ ft}^2)$ e.g. $1390 \times 0.0929 (= 129.131 \text{ m}^2)$ for floor area of property A428</p> <p>1 mark: correct answer e.g. 1292 ft^2 or 1291.7 ft^2 Accept 1291.711518 ft^2 rounded or truncated e.g. 129 m^2 or 129.1 m^2 for floor area of property A428 Accept 129.131 m^2 rounded or truncated Correct units required</p>	K
<ul style="list-style-type: none"> calculating with sums of money in different currencies (N3.2g) 	<p>1 mark: candidate uses correct process to convert Euros to Pounds (£) e.g. $125000 \div 1.11 (= \text{£}112612.6126)$</p> <p>1 mark: correct answer e.g. (£)112612.61 e.g. (£)112613 or (£)112600 Accept (£)112612.6126</p>	L

The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none"> • using powers and roots (N3.2c) • rearranging and using formulae, equations and expressions (N3.2o) 	<p>1 mark: candidate shows correct use of the power e.g. $(1 + 3.5/100)^3$ or 1.035^3 or $1.035 \times 1.035 \times 1.035$ e.g. $(1 + 6.2/100)^3$ or 1.062^3 or $1.062 \times 1.062 \times 1.062$</p> <p>1 mark: candidate shows correct process to use formula using their value for the amount to invest or the amount of the loan e.g. (F =) '112612.61' $\times 1.034^3$ (= £124494.0628...) for the investment e.g. (F =) ('189000' – '112612.61') $\times 1.062^3$ (= £91494.5491...) for the loan on property 755</p> <p>1 mark: correct answer e.g. (£)124 494.06 or (£)124 494 Accept (£)124 494.0628... e.g. (£)91 494.55 or (£)91 495 Accept (£)91 494.5491...</p>	M
<ul style="list-style-type: none"> • carrying out multi-stage calculations efficiently with numbers of any size (N3.2m) 	<p>1 mark: candidate uses correct process to calculate the financial position with the invest and rent option for any suitable property, based on their value for the amount to invest e.g. $(875 \times 12 \times 3) - ('124494.06' - '112612.61')$ (= £19618.55) for property H468</p> <p>1 mark: correct answer for any suitable property e.g. £19618.55 Accept £19619</p>	N
<ul style="list-style-type: none"> • showing clearly methods of carrying out calculations, justifying levels of accuracy of results (N3.2a) 	<p>1 mark: candidate gives their results rounded correctly to a suitable level of accuracy. Allow one incorrect or unsuitable rounding</p>	P

Part 3 (maximum 11 marks)

The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none">• selecting and using appropriate methods to effectively present and illustrate findings, showing trends and making comparisons, including numerical, graphical and written formats (N3.3.1b)• constructing complex tables, charts, graphs and diagrams and label with titles, scales, axes and keys appropriate to purpose and audience (N3.3.2a)	<p>1 mark: candidate uses an appropriate method of presentation for their results e.g. table, chart, graph or diagram</p> <p>1 mark: candidate uses suitable title, labels with units and key</p> <p>1 mark: candidate populates table/chart/graph or diagram with correct data (± 2 mm tolerance for plots on a hand drawn chart, graph or diagram)</p>	Q
<ul style="list-style-type: none">• selecting and using appropriate methods to effectively present and illustrate findings, showing trends and making comparisons, including numerical, graphical and written formats (N3.3.1b)• constructing complex tables, charts, graphs and diagrams and label with titles, scales, axes and keys appropriate to purpose and audience (N3.3.2a)	<p>1 mark: candidate uses an appropriate method of presentation (e.g. table, chart, graph or diagram), using a different presentation method to the one used previously</p> <p>1 mark: candidate uses suitable title, labels with units and key</p> <p>1 mark: candidate populates table/chart/graph or diagram with correct data (± 2 mm tolerance for plots on a hand drawn chart, graph or diagram)</p>	R
<ul style="list-style-type: none">• justifying choices of methods of presentation (N3.3.1c)	<p>1 mark: candidate justifies their choices of the methods of presentation e.g. I presented the local house prices in a cumulative frequency graph because it allows an accurate estimate of the median price.</p> <p>e.g. I presented the financial position of the rental and purchase options in a table because it shows the costs of each option side by side and allows for a clear comparison.</p>	S

The candidate has shown evidence of:	Mark scheme	Row
<ul style="list-style-type: none"> • justifying methods used, highlighting main points of findings and explaining how far their results meet the purpose (N3.3.2c) • drawing appropriate conclusions based on findings including how possible sources of error might have affected results (N3.3.2d) 	<p>1 mark: candidate makes a valid comment on the effectiveness of their results in meeting the purpose of the task e.g. The aims of the task were to compare house prices locally with prices in Wales, and to recommend to friends whether to rent or buy a property. I found the median house prices to compare them. The median is a better average as it is not affected by the few extremely high prices. I chose suitable properties based on the floor area required. I worked out the value of the investment and the cost of rent over three years. I also worked out the size and the cost of a loan to buy a property. With these calculations, I compared the total costs of each option and made a recommendation. These results fully met the aim of the task.</p> <p>1 mark: candidate makes a valid comparison of house prices e.g. The median price of a 3-bedroomed property in Wales (£168000) is £8000 higher than the median price locally (£160000).</p> <p>1 mark: candidate makes a valid comment comparing the rental and purchase options e.g. The total rent over three years for my chosen property (H468) is £31500. The investment will bring in £11881, so the total cost of renting and investing is £19619. The loan will cost only £15107, which is £4512 lower, so the option I recommend is to buy the property.</p> <p>1 mark: candidate makes at least one appropriate comment explaining how possible sources of error might have affected results e.g. The estimate of the median is based on only 35 properties, so may not be representative of all the properties in the area. e.g. The cost of buying a property does not include other costs such as fees for estate agents or stamp duty, or maintenance of the property which would not be paid on a rental property. The actual cost of buying a property may be higher than I calculated.</p>	T

Example workings

Property price (£)	Frequency	Cumulative frequency
140000 to 150000	8	8
150001 to 160000	10	18
160001 to 170000	5	23
170001 to 180000	5	28
180001 to 190000	3	31
190001 to 200000	2	33
200001 to 210000	2	35

Median: $(35 + 1) \div 2 = 18$ From the table, the 18th price is in the £150001 to 160000 group



From the graph

Median (£)160000 ± (£)1000

UQ £178000 ± (£)1000

LQ £151000 ± (£)1000

IQR £27000 ± (£)2000

Alternative grouping

Property Price (£)	Frequency	Cumulative frequency
145000	2	2
147500	3	5
149000	3	8
151000	3	11
154000	5	16
158500	2	18
161000	1	19
164000	4	23
171000	3	26
173500	1	27
175000	1	28
189000	3	31
199900	2	33
206900	2	35

Median: $(35 + 1) \div 2 = 18$, the 18th price is (£)158500

LQ : $(35 + 1) \div 4 = 9$, the 9th price is (£)151000

UQ : $3 \times (35 + 1) \div 4 = 27$, the 27th price is (£)173500

IQR: (£)22500

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