

# Essential Skills Wales

## Essential Application of Number Skills (EAoNS)

### Level 3 Controlled Task

#### Candidate Pack

## Investigating Accommodation Options

Sample 1

Candidate name:
Candidate number:
Date registered for EAoNS:
Unique Learner Number (ULN) <i>(if applicable)</i> :
Centre name <i>or</i> number:

### Instructions

- Make sure the boxes at the top of this page are filled in with your name, candidate number, ULN (if applicable) and centre name or number.
- Make sure you complete **all** parts of the task.

You have up to **8 hours in total** to complete this controlled task, although that time can be split over a number of sessions. Details of when each session started and ended **must** be recorded below:

Date controlled task <b>started</b> :							
Date controlled task <b>completed</b> <i>(no more than eight weeks later)</i> :							
Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8
	<i>Date</i>	<i>Date</i>	<i>Date</i>	<i>Date</i>	<i>Date</i>	<i>Date</i>	<i>Date</i>
<i>Duration</i>	<i>Duration</i>	<i>Duration</i>	<i>Duration</i>	<i>Duration</i>	<i>Duration</i>	<i>Duration</i>	<i>Duration</i>
<b>Total</b> time spent:							

If more than eight sessions are required, any further dates/durations should be recorded on a separate sheet.

**This task pack contains a scenario, a set of instructions and some source material.**

- Make sure you read through the scenario, instructions and source material carefully before you start.
- You will be supervised throughout your time working on this task, although during that time you can use most of the equipment that would normally be available to you in a real-life situation (this may include accessing the internet).
- All work submitted must be **entirely** your own. You are not allowed to be given any help with the skills that are being assessed through this controlled task.
- Make sure you hand in all of your work at the end of **each** session. You are not allowed to take any task materials away with you, or have access to these between sessions.
- Make sure you **sign the declaration** at the back of this pack at the end of your final session working on this task.

# Task instructions: Investigating Accommodation Options

## What you need to find out

### Scenario

Some Italian friends are moving to Wales for three years. They have asked for your advice on finding accommodation. They are considering two options, either purchasing or renting a property.

The aim of this task is to:

- compare property prices in the local area with prices in Wales
- investigate both options and recommend one of them.

Use the sources provided.

## What you need to do

### Part 1

You must plan how you will prepare the information. Your plan must show:

- how you will tackle the problem
- what information you will use and the reason for your choice
- what calculations you could use, and which you choose to do
- why you have chosen these methods
- how you will present the results.

(Total for Part 1: 6 marks)

### Part 2

Compare the distributions of the prices of 3-bedroom properties in the local area and 3-bedroom properties in Wales.

Your friends want a 3-bedroom property with a floor area of at least 120 square metres. They have a budget of 125 000 Euros.

Compare your friends' financial position after the three years with both of the options.

Option 1 - investing their money in the UK for 3 years and renting a property.

- work out the total value of the investment after 3 years
- choose a suitable property and work out the total rent for 3 years.

Option 2 - using their money as a deposit and taking out a loan to purchase a property.

Your friends would sell the property after 3 years. They would sell it for the same price as they bought it, and pay back the loan.

- choose a suitable property and work out the amount of a loan your friends would need
- work out the total cost of the loan at 6.2% compound interest for 3 years.

You must:

- do at least one calculation without a calculator
- show all the calculations you do. If you use a calculator, make a note of what you put into the calculator. If you use a spreadsheet, make a note of the numbers and the formulas you use
- give your answers to a suitable level of accuracy.

Remember to check your calculations.

(Total for Part 2: 19 marks)

### **Part 3**

Present your results in two different ways.

Use one way to present the distribution of prices of properties in your local area.

Use a different way to present your friends' financial position with the invest and rent option and the purchase option.

Produce a brief report about your results:

- make a recommendation and explain your reasons
- comment on the effectiveness of your results in meeting the purpose of the task
- justify your methods of presentation
- comment on how any possible sources of error may have affected your results.

(Total for Part 3: 11 marks)

### **Resources you should use:**

#### **Source 1**

- Graph – Prices of 3-bedroom properties in Wales

#### **Source 2**

- Table – Properties for sale in the local area

#### **Source 3**

- Table – Exchange rates

#### **Source 4**

- Table – Imperial and metric equivalents

#### **Source 5**

- Investment plan

#### **Source 6**

- Table – 3-bedroom homes for rent in the local area

#### **Source 7**

- Formula for compound interest

Source 1 Graph – Prices of 3-bedroom properties in Wales

Prices of 3-bedroom properties in Wales



**Source 2 Table – Properties for sale in the local area (Page 1 of 2)**

<b>Property reference</b>	<b>Type of property</b>	<b>Selling price (£)</b>	<b>Number of bedrooms</b>	<b>Distance from town centre (miles)</b>	<b>Floor area (square feet)</b>
502	Semi-detached	164 000	3	1	1440
512	Terrace	147 500	3	1	1280
515	Semi-detached	222 300	4	3	2260
538	Bungalow	154 000	3	3	1270
573	Terrace	153 900	4	2	1870
574	Terrace	161 000	3	1	1230
575	Flat	129 000	2	1	1120
597	Semi-detached	177 350	2	1	1160
615	Terrace	140 500	2	2	1030
629	Terrace	189 000	3	4	1420
630	Bungalow	164 000	3	1	1450
631	Semi-detached	132 900	2	5	930
631	Terrace	171 000	3	2	1370
654	Semi-detached	145 000	3	5	1230
658	Semi-detached	149 000	3	4	1330
661	Detached	201 400	4	2	1500
662	Semi-detached	199 900	3	1	1410
665	Semi-detached	154 000	3	1	1240
666	Terrace	151 000	2	2	1150
673	Semi-detached	206 900	3	1	1330
676	Detached	250 000	5	1	2000
695	Semi-detached	164 000	3	4	1420
700	Semi-detached	189 000	3	3	1430
701	Semi-detached	132 650	2	3	970
708	Semi-detached	136 360	2	4	970
709	Detached	143 250	4	3	1980
716	Detached	189 000	3	2	1440
733	Bungalow	435 600	5	3	2250
744	Semi-detached	151 000	3	2	1390
755	Bungalow	151 000	3	1	1430
756	Semi-detached	140 000	2	3	1120
757	Semi-detached	135 050	2	5	1040
769	Semi-detached	206 900	3	2	1310
771	Semi-detached	173 500	3	4	1410
772	Terrace	149 000	3	1	1430
780	Semi-detached	123 365	2	3	1100
788	Semi-detached	150 350	2	1	1040

**Source 2 Table – Properties for sale in the local area (Page 2 of 2)**

<b>Property reference</b>	<b>Type of property</b>	<b>Selling price (£)</b>	<b>Number of bedrooms</b>	<b>Distance from town centre (miles)</b>	<b>Floor area (square feet)</b>
794	Terrace	122 900	2	3	1110
795	Semi-detached	144 560	4	1	1700
797	Bungalow	192 000	4	5	1930
805	Detached	171 000	3	2	1340
812	Semi-detached	151 000	3	1	1290
814	Semi-detached	149 000	3	4	1430
819	Detached	181 900	4	2	1600
824	Detached	158 500	3	2	1410
832	Bungalow	145 000	3	4	1240
835	Bungalow	171 000	3	6	1260
844	Semi-detached	147 500	2	1	940
856	Semi-detached	158 500	3	3	1360
862	Detached	164 000	3	2	1340
867	Semi-detached	147 500	3	3	1410
874	Detached	154 000	3	4	1230
878	Semi-detached	175 000	3	3	1280
894	Semi-detached	255 600	5	1	1990
900	Detached	154 000	3	1	1290
915	Semi-detached	252 990	5	4	2290
918	Semi-detached	124 550	2	4	1120
920	Semi-detached	154 000	3	2	1300
924	Terrace	136 000	2	1	1130
924	Detached	334 990	5	2	2410
935	Detached	147 500	3	1	1370
938	Terrace	140 990	2	1	1030
939	Terrace	149 900	2	2	1100
958	Detached	199 900	3	5	1300
972	Terrace	135 360	2	1	1030

### Source 3 Table – Exchange rates

Currency	Exchange rate per £1
US Dollar	1.32
Euro	1.11
Australian Dollar	1.76
Danish Krone	8.84
Japanese Yen	137.29
Russian Ruble	87.34
Turkish Lira	3.94

### Source 4 Table – Imperial and metric equivalents

#### Linear measure

1 inch	2.54 cm
1 foot	30.5 cm
1 yard	0.914 m
1 mile	1.61 km

1 cm	0.394 inches
1 m	39.4 inches
1 m	3.28 feet
1 km	0.621 miles

#### Area measure

1 square inch	6.45 cm <sup>2</sup>
1 square foot	0.0929 m <sup>2</sup>
1 square yard	0.836 m <sup>2</sup>
1 square mile	2.59 km <sup>2</sup>

1 cm <sup>2</sup>	0.155 square inches
1 m <sup>2</sup>	10.8 square feet
1 m <sup>2</sup>	1.196 square yards
1 km <sup>2</sup>	0.386 square miles



## Source 5 Investment plan

<b>Investment plan</b>
Invest between £50 000 and £500 000 Fixed rate of interest of 3.5% compound for 3 years
Your money must remain in the account for 3 full years. No withdrawals are allowed until the end of the plan.

## Source 6 Table – 3-bedroom homes for rent in the local area

Property reference	Type of property	Monthly rent (£)	Floor area (square feet)
A428	Terrace	800	1390
A147	Detached	895	1320
A429	Semi-detached	795	1270
A357	Terrace	795	1290
A450	Terrace	785	1150
A447	Semi-detached	810	1380
A272	Bungalow	845	1290
B397	Detached	875	1440
B432	Terrace	815	1360
B236	Semi-detached	830	1320
F260	Terrace	780	1400
F118	Semi-detached	800	1150
F239	Detached	835	1250
F162	Terrace	765	1430
F423	Semi-detached	785	1330
H207	Terrace	760	1200
H364	Semi-detached	795	1240
H115	Semi-detached	785	1310
H388	Bungalow	845	1220
H468	Detached	875	1440
P260	Bungalow	925	1280
P406	Semi-detached	885	1440

## Source 7 Formula for compound interest

$$F = P\left(1 + \frac{r}{100}\right)^n$$

where

F is the final value in £

P is the original value in £

r is the interest rate as a percentage

n is the number of years

## Declarations

The candidate and assessor declarations **must** be completed.

Candidate name: \_\_\_\_\_

### Candidate declaration:

I confirm that this is entirely my own work and it was completed in the times stated on the front cover.

Candidate signature \_\_\_\_\_ Date \_\_\_\_\_

For centre staff and [AB] use only

### Assessor declaration:

I confirm that this candidate has met the standard required for the controlled task. The controlled task was conducted under the specified conditions and completed within the working period and working time requirements.

Assessor signature \_\_\_\_\_ Date \_\_\_\_\_

### Internal quality assurer (IQA) declaration:

*(if sampled)*

I have internally quality assured this work and confirm that the standards have been met.

IQA signature \_\_\_\_\_ Date \_\_\_\_\_

### External quality assurer (EQA) declaration:

*(if sampled)*

I have externally quality assured this work and confirm that the standards have been met.

EQA signature \_\_\_\_\_ Date \_\_\_\_\_

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**This assessment material was jointly developed by Agored Cymru, City & Guilds, Pearson and WJEC who are the four Essential Skills Wales Awarding Bodies.**