

Extract from Specification

**Pearson Edexcel Entry Level 3
Essential Skills Wales in Application
of Number**

Edexcel, BTEC and LCCI qualifications

Edexcel, BTEC and LCCI qualifications are awarded by Pearson, the UK's largest awarding body offering academic and vocational qualifications that are globally recognised and benchmarked. For further information, please visit our qualification websites at www.edexcel.com, www.btec.co.uk or www.lcci.org.uk. Alternatively, you can get in touch with us using the details on our contact us page at qualifications.pearson.com/contactus

About Pearson

Pearson is the world's leading learning company, with 40,000 employees in more than 70 countries working to help people of all ages to make measurable progress in their lives through learning. We put the learner at the centre of everything we do, because wherever learning flourishes, so do people. Find out more about how we can help you and your learners at qualifications.pearson.com

References to third party material made in this specification are made in good faith. Pearson does not endorse, approve or accept responsibility for the content of materials, which may be subject to change, or any opinions expressed therein. (Material may include textbooks, journals, magazines and other publications and websites.)

All information in this specification is correct at time of publication.

All the material in this publication is copyright

© Pearson Education Limited 2017

Entry Level 3 Essential Skills Wales in Application of Number

Level:	Entry Level 3
Credit value:	6
Guided Learning Hours:	60

About this qualification

This is about demonstrating your skills in:

- understanding numerical data (NE3.1)
- carrying out calculations (NE3.2)
- interpreting results and presenting findings (NE3.3)

in order to tackle problems or tasks that you meet in education, training, work and social roles.

Amplification of evidence requirements

Notes

- 1 Each level of the skill incorporates and builds on the previous level. So, for example, while there is no mention of 'positional vocabulary' in the standards at Entry Level 3, you must know how to understand positional vocabulary because this is required at Entry Levels 1 and 2.
- 2 The subject matter and resources will be familiar to you (ie you have met them before) and accessible.
- 3 You must provide evidence of your Application of Number skills, as they are specified in the first column of the component grid. Your evidence must be in the form described in the third column ('Evidence requirements'). In order to provide this evidence, you will need to have the skills that are listed in the second column.
- 4 The guidance within the qualification supports the requirements of the three columns of the component areas and is intended to advise and help you and your teacher/tutor/trainer in your work. It provides explanations of some of the requirements of the standards that may be useful when you are developing the skill of Application of Number at Entry Level 3 and producing evidence of your work. It is not a mandatory part of the standards.
- 5 Many learners when producing evidence have found that it is both more interesting and more effective to complete a task or activity that covers all three components (NE3.1, NE3.2 and NE3.3) as a continuous process. However, this is not a requirement.

- 6 The Mandatory Definitions (Annexe A) give the exact meaning of certain words in the document. You must always refer to them when you are developing your skills, gathering evidence, and preparing for assessment.
- 7 Witness statements must not be the only form of evidence that you provide. When you provide a witness statement, it must be supported by other evidence.

Evidence

At Entry Level, you will be assessed via a portfolio of evidence. The term 'evidence' is used in this document to refer to the work you produce for final assessment.

You must:

Understand and tackle a problem or task → Read and understand data
→ Carry out calculations → Check results → Present findings.

All your calculations should ideally be set in a purposeful context although standalone exercises are acceptable.

There must be evidence that all your work has been assessed and authenticated, eg there must be records/notes, written by a competent assessor, confirming that your work is your own and that it has achieved the required standard.

Skill requirements

In order to achieve this qualification, the evidence that you present for assessment needs to demonstrate that you can meet all of the skills requirements of the qualification for each of the component areas. A piece of work submitted could give assessment evidence for more than one skill.

Component: NE3.1 Understand numerical data

You must provide evidence that you can:	In order to show that you are competent, you need to know how to:	Evidence requirements	Guidance
NE3.1.1 Confirm that you understand a given practical problem or task involving numbers, measures, simple shapes and diagrams.	check with an appropriate person that you understand the problem or task ...	Evidence must show that the learner has understood the given problem or task. Evidence may be in the form of either: <ul style="list-style-type: none"> • notes produced by the learner (by hand or electronically) • a witness statement. 	Confirm You must show that you understand the problem or task that you have been given (e.g. by repeating it in your own words and/or asking for more detail).
NE3.1.2 Confirm how you will tackle it.	. . . and how you will tackle it	Evidence must show that the candidate has understood how the task will be tackled. Evidence may be in the form of either: <ul style="list-style-type: none"> • notes produced by the candidate (by hand or electronically) Or <ul style="list-style-type: none"> • a witness statement. 	Confirm You must show that you understand how you will tackle the task (e.g. by repeating instructions in your own words and/or asking for more detail).

You must provide evidence that you can:	In order to show that you are competent, you need to know how to:	Evidence requirements	Guidance
<p>NE3.1.3 Obtain, read, understand and record data from at least two sources to meet the purpose of your task.</p> <p>Your sources must include a simple diagram.</p>	<ul style="list-style-type: none"> • read, understand and extract information given by numbers, symbols, lists, tables, simple diagrams, charts and block graphs used for different purposes and in different ways in numerical and written material • make numerical comparisons from bar charts and pictograms • use whole numbers, fractions and decimals to measure and make observations • make observations and record numerical information using a tally • read simple scales • use shape and space to record information • use numerical information from lists, tables, diagrams and simple charts to help your understanding. 	<p>At least one source must require the candidate to read/collect and record data.</p> <p>Evidence must include data that the candidate has obtained, read, understood and recorded from at least two sources.</p> <p>At least one source must include a simple diagram.</p> <p>Evidence must include:</p> <ul style="list-style-type: none"> • copies of source material • details of the site(s) of observation/ measurement • records of data obtained 	<p>Obtain, read, understand, extract You must know how to obtain information from sources such as:</p> <ul style="list-style-type: none"> • tables (e.g a table showing how many guests ordered each dish on a menu) • charts (e.g. a pie chart showing the proportion of businesses with each of a given range of employees) • block graph (e.g. that shows how many candidates achieved each grade in an examination) • simple diagrams (e.g. an outline floor plan of a room). <p>Measure and make observations You must know how to use simple measuring instruments (e.g. a thermometer or weighing machine) and how to make accurate observations (e.g. counting the number of cars in a car park at different times of the day).</p> <p>Record You must record measurements and observations accurately and in a way that is fit for the purpose of your task, using a tally where appropriate (e.g. when observing the number of passers-by a given point).</p>

Component: NE3.2 Carry out calculations

You must provide evidence that you can:	In order to show that you are competent, you need to know how to:	Evidence requirements	Guidance
<p>NE3.2.1 Use the data you have obtained to carry out calculations relevant to your task to do with:</p> <p>a) amounts or sizes b) proportion.</p>	<ul style="list-style-type: none"> • use methods and materials you have been given to get the results you need • work to the levels of accuracy you have been given • count, read, write, order and compare whole numbers up to 1000 • add and subtract using three-digit numbers • multiply two-digit whole numbers by single-digit whole numbers • divide two-digit whole numbers by single-digit whole numbers and interpret remainders • recall addition and subtraction facts to 20 • recall simple multiplication facts • approximate by rounding numbers less than 1000 to the nearest 10 or 100 • estimate answers to calculations • use and interpret +, −, ×, ÷ and = in practical situations for solving problems • read, write and understand common fractions • recognise and use equivalent forms 	<p>Evidence must show that the candidate can work with the methods, materials and levels of accuracy that they have been given.</p> <p>Evidence must include notes of:</p> <ul style="list-style-type: none"> • how the candidate has checked their calculations • how the results make sense in relation to their task. <p>The latter may be in the form of a witness statement.</p>	<p>Carry out calculations Application of Number requires you to show that you can carry out a number of different types of calculations to do with ‘amounts or sizes’ and ‘proportion’. ‘Amounts or sizes’ is a single category. From each of these categories, you must present at least one example as evidence.</p> <p>a) Amounts or sizes You must know how to carry out calculations using:</p> <ul style="list-style-type: none"> • whole numbers • decimals up to two decimal places in practical contexts (e.g. to work with money). <p>b) Proportion You must know how to read, write and understand common fractions and decimals when expressing or comparing proportions.</p> <p>Levels of accuracy You must know how to work to levels of accuracy given to you by your teacher, tutor or trainer, such as to the nearest pound.</p>

N3.2.1 cont.

- read, write and understand decimals up to two decimal places in practical contexts
- estimate, calculate and compare money by:
 - adding and subtracting sums using decimal notation
 - rounding sums to the nearest £1, 10p
 - making approximate calculations
- read, measure and record time using:
 - a.m. and p.m.
 - common date formats
 - digital clocks and analogue clocks to the nearest five-minute intervals
- estimate, read, measure and compare length, capacity, weight and temperature using non-standard and standard units
- choose and use appropriate units and measuring instruments
- sort 2-D and 3-D shapes to solve practical problems using properties
- organise and represent information in different ways so that it makes sense to others
- calculate efficiently using whole numbers and decimals

N3.2.1 cont.

- use a calculator and methods you have been given to check your calculations
- correct any errors • check that your results make sense.

Component: NE2.3 Interpret results and present findings

You must provide evidence that you can:	In order to show that you are competent, you need to know how to:	Evidence requirements	Guidance
NE3.3.1 Present your findings.	<ul style="list-style-type: none"> use numbers, fractions, decimals, measures, tables, diagrams, charts or graphs, and symbols as appropriate to present your results use common units of measure to define quantities 	<p>Evidence must show that the candidate can, with guidance from a teacher, tutor or trainer, make appropriate choices of how to present their findings and results, with appropriate use of units.</p> <p>If ICT is used to produce graphics, evidence must show that the candidate has checked their accuracy and can explain them fully.</p> <p>While graphics must be produced on paper, evidence of understanding may be in the form of a witness statement.</p>	Present You must know how to present your findings and results effectively, using methods suggested by or agreed with your teacher, tutor or trainer.
NE3.3.2 Explain how your results meet the purpose of your task.	<ul style="list-style-type: none"> explain how your results meet the purpose of your task. 	<p>Evidence must show that the candidate can:</p> <ul style="list-style-type: none"> describe the results of their calculations describe how they meet the purpose of their task. <p>Evidence may be in the form of either:</p> <ul style="list-style-type: none"> notes produced by the candidate (by hand or electronically) or a witness statement. 	Describe You must know how to explain how your results relate to the problem or task you were given.

Guidance for Application of Number Entry Level 3

The guidance below supports the requirements of the three columns of the component areas and is intended to advise and help you and your teacher/tutor/trainer in your work. It provides explanations of some of the requirements of the standards that may be useful when you are developing the skill of Application of Number at Entry Level 3 and producing evidence of your work. It is not a mandatory part of the standards.

NE3.1.1

Confirm

You must show that you understand the problem or task that you have been given, eg by repeating it in your own words and/or asking for more detail.

NE3.1.2

Confirm

You must show that you understand how you will tackle the task, eg by repeating instructions in your own words and/or asking for more detail.

NE3.1.3

Obtain, read, understand, extract

You must know how to obtain information from sources such as:

- tables (eg a table showing how many guests ordered each dish on a menu)
- charts (eg a pie chart showing the proportion of businesses with each of a given range of employees)
- block graph (eg that shows how many learners achieved each grade in an examination)
- simple diagram (eg an outline floor plan of a room).

Measure and make observations

You must know how to use simple measuring instruments (eg a thermometer or weighing machine) and how to make accurate observations (eg counting the number of cars in a car park at different times of the day).

Record

You must record measurements and observations accurately and in a way that is fit for the purpose of your task, using a tally where appropriate (eg when observing the number of passers-by a given point).

NE3.2.1

Carry out calculations

Application of Number requires you to show that you can carry out a number of different types of calculations to do with 'amounts or sizes' and 'proportion'. 'Amounts or sizes' is a single category. From each of these categories, you must present at least one example as evidence.

(a) amounts or sizes

You must know how to carry out calculations using:

- whole numbers
- decimals up to two decimal places in practical contexts (eg to work with money)

(b) proportion

You must know how to read, write and understand common fractions and decimals when expressing or comparing proportions.

Levels of accuracy

You must know how to work to levels of accuracy given to you by your teacher, tutor or trainer, such as the nearest pound (£).

Check calculations

You must always check for accuracy as the final stage in your calculations. You must use a calculator and methods you have been given.

Check that results make sense

While your results may be based on accurate calculations, they may not 'make sense' or be fit for purpose in relation to the problem or task that you have tackled. You must check this.

NE3.3.1

Present

You must know how to present your findings and results effectively, using methods suggested by or agreed with your teacher, tutor or trainer.

NE3.3.2

Describe

You must know how to explain how your results relate to the problem or task you were given.