

Essential Skills Wales

APPLICATION OF NUMBER

Important notes:

1. Each level of the skill incorporates and builds on the previous levels.
2. This document must be read in association with the documents 'Amplification of evidence requirements' and 'Application of Number Mandatory Definitions' which provide mandatory detail about each component and are a constituent part of the standards.

Level 1

This is about demonstrating your skills in:

- understanding numerical data
- carrying out calculations
- interpreting results and presenting findings

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

N1.1 Understand numerical data

You must provide evidence that you can:

N1.1.1

Understand and describe at least one given practical problem or task that involves a range of numerical data and information.

N1.1.2

Agree with an appropriate person how you will tackle it.

N1.1.3

Obtain relevant numerical data and information from at least two sources to meet the purpose of your task.

Your sources must include at least **one** of a table, a chart, a graph or a diagram.

In order to show that you are competent, you need to know how to:

- check with an appropriate person that you understand the problem or task and agree how you will tackle it
- read, understand and extract information from tables, diagrams, charts and simple graphs
- read and understand numbers presented in different ways, including large numbers in figures or words, simple fractions, decimals, percentages, ratios and negative numbers
- collect and record data from accurate observations
- read scales on familiar measuring equipment using everyday units
- use scales on diagrams to find and interpret information
- use shape and space to record measurements and make observations.

N1.2 Carry out calculations

You must provide evidence that you can:

N1.2.1

Use appropriate methods to get the results you need and describe the methods you have used.

N1.2.2

Use the data and information you have obtained to carry out calculations relevant to your task to do with:

- a) amounts or sizes
- b) scales or proportion
- c) handling statistics.

In order to show that you are competent, you need to know how to:

- identify and use methods and calculations that are suitable for your task
- work to the levels of accuracy you have been given
- add and subtract, with whole numbers and simple decimals with and without a calculator
- multiply and divide a simple decimal by a whole number with and without a calculator
- recall multiplication facts to 10 x 10 and make connections with division facts
- understand and find simple fractions and percentages
- recognise equivalencies between common fractions, percentages and decimals, and use these to find proportions of whole numbers
- add, subtract, multiply, divide and record sums of money
- read, measure and record time in common date and time formats
- choose and use appropriate units and instruments to estimate, read, measure and compare length, weight, capacity, time and temperature
- calculate within a system by
 - adding and subtracting common units of measure
 - converting units of measure in the system
- work out different properties of a variety of shapes, including perimeters, areas and volumes
- draw 2-D shapes in different orientations using grids
- use ratios and proportion
- use probability to show (using fractions, decimals and percentages) that some events are more likely to occur than others
- find the average (mean) of up to 10 items
- find the range for up to 10 items
- calculate efficiently using whole numbers, fractions, and decimals
- use different ways of checking your methods and calculations
- identify and correct any errors
- check that your results make sense.

N1.3 Interpret results and present findings

You must provide evidence that you can:

N1.3.1

Present your findings using charts, graphs or diagrams.

N1.3.2

Describe what your results tell you and explain how they meet the purpose of your task.

In order to show that you are competent, you need to know how to:

- interpret the results of your calculations
- show how your results relate to your problem or task
- identify and describe more than one appropriate way to present your findings to a familiar given audience, including using charts or diagrams
- using the correct units, use appropriate ways to present your findings, including a chart or graph, and a diagram
- label your work correctly
- describe what your results tell you and explain how they meet the purpose of your task.

Access statement

Candidates with particular disabilities may be unable to show that they are competent by providing all their evidence in the form specified in these standards.

For such candidates, reasonable adjustments to the evidence requirements may be allowed in appropriate circumstances. In some cases, exemptions may be permissible. Further detail on reasonable adjustments and exemptions for candidates with particular disabilities can be found in a separate amplification document.