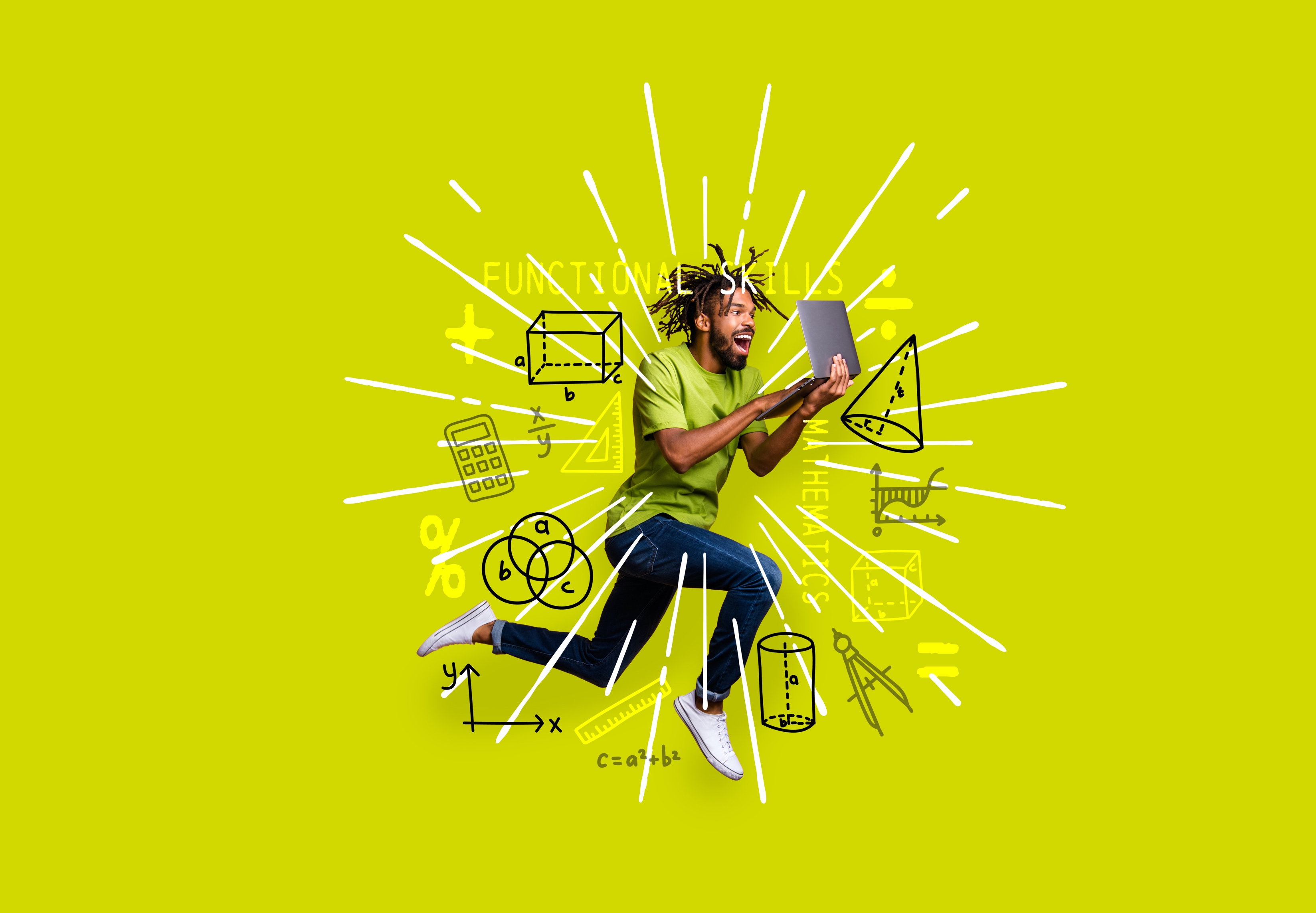
Logo

Description automatically generated

**FUNCTIONAL SKILLS**

Maths Level 2



**23.Calculate the median and mode of a set of quantities**

**Median** - is a type of average. It is the middle value of a set of data when the values are arranged in size order from smallest to largest.

**Mode** - is the most common value that appears in a set of data.

**Using the information provided, work out the answers to the following practice questions.**

**Question 1**

Cathy has been timing her 5km runs over the past 7 days. Her times in minutes are, **31, 29, 30, 32, 28, 29, 29**. What are Cathy’s median and mode run times?

(Show your working out)

|  |
| --- |
| **Median** |
| **Mode** |

**Question 2**

Find the median and the mode for the following set of numbers:

1, 20, 15, 8, 7, 8, 7, 11, 11, 1, 8

(Show your working out)

|  |
| --- |
| **Median** |
| **Mode** |

**Question 3**

Find the median and the mode of the hourly earnings:

* Employee A – £9.96
* Employee B – £10.40
* Employee C – £10.48
* Employee D – £9.89
* Employee E – £9.55
* Employee F – £10.48
* Employee G – £9.89

(Show your working out)

|  |
| --- |
| **Median** |
| **Mode** |

**Question 4**

Find the median and the mode for the following set of numbers:

41, 13, 21, 83, 54, 69, 37, 18, 66, 72, 41, 14, 13, 21

(Show your working out)

|  |
| --- |
| **Median** |
| **Mode** |

**Question 5**

Find the median and the mode for the following set of numbers:

53, 22, 76, 46, 68, 32, 15, 29, 15, 41, 18, 52, 21, 36, 15

(Show your working out)

|  |
| --- |
| **Median** |
| **Mode** |

Icon

Description automatically generated**Exam style question 1 - Calculator**

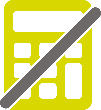
On one day, 25December, the temperature of different   
places around the world were as follows:

* Amsterdam – 5ºC
* Hong Kong – 15ºC
* New York – 6ºC
* London – 2ºC
* Toronto – 3ºC
* Sidney – 26ºC
* Singapore – 26ºC

Find the median and mode of the temperatures.

(Show your working out) ***(5 marks)***

|  |
| --- |
| **Median** |
| **Mode** |

**Exam style question 2 - Non-calculator**

Calculate the median and mode of the following set of numbers:

10, 36, 48, 36, 92, 45, 50, 21, 15, 19, 36, 24

(Show your working out) ***(2 marks)***

|  |
| --- |
| **Median** |
| **Mode** |

**Your functional skills exam**

Your functional skills exams will consist of 2 papers.   
These papers will take place over the following time periods:

* Calculator paper – 40 minutes
* Non-calculator – 1 hour 50 minutes

Further information on the format that your test will take can be obtained from your training provider.

**Hints and tips**

* Find out what format your exam will be in. It may be paper-based   
  or on-screen.
* Plan what you are going to revise in advance. Don’t leave it until the last minute.
* Do as many past papers as you can so you are prepared for the day. If possible, try to complete the past papers following the same format as the actual exam.
* Find a quiet place to study and revise. It helps to sit at a table or a desk, don’t revise in bed.
* Don’t stay up all night revising the night before your exam. It’s important to have a good rest so you feel refreshed and ready to go.
* Read the question 3 times. The first time to ensure you understand what is being asked, the second time to get an understanding of what you need to do, and a third time to figure out exactly what maths techniques you should be applying.
* If you are struggling with a question, skip it and come back to it later. Try not to sit getting worked up about a difficult question, it will only waste exam time. Move on and come back to it after you have answered the other questions.
* Take note of the number of marks available. This will give you an indication of how much working out you must show. For example, 1 mark will need an answer only and more marks will need you to show your working out.
* When you’ve finished the exam, go back and check your answers. If you still have time remaining, use it to check your answers and when you have checked your answers check them again.