# Unit 1-1: What are algorithms?

## Representing algorithms

1. Define **algorithm**
2. Describe two methods in which algorithms can be represented
3. Design a solution to the scenario using the described methods:
*Write an algorithm to check if someone is of legal age to drive (Where the legal driving age is 17)*
4. Create a trace table for this algorithm using the values of 15, 17, and 19

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  | *Write any variables in below* |
| **Line** | **Input** | **Output** |  |  |  |
| 1 |  |  |  |  |  |

## Efficiency of Algorithms

1. Define **decomposition**

Write your reponse here

1. Explain why decomposition is used in the solution of programs

Write your reponse here

1. Define **abstraction**

Write your reponse here

1. Define **robust**

Write your reponse here

1. Explain why abstraction is applied to the solution of problems, in terms of robustness

Write your reponse here