

Computing KS3

Students must use their resources to research the correct answer.

Incorrect 0/1 Points

Marks are awarded.

1. Which of these is a purpose-built device, designed to automate a specific process? Tick all that apply. [?]

- Babbage's analytical engine
Feedback: Correct - this was a purpose built device designed to do addition and subtraction.
- The Pascaline
Feedback: Correct - this was a purpose built device designed to predict eclipses.
- The Antikythera mechanism
Feedback: Correct - this was a purpose built device designed to do addition, subtraction, multiplication and division.
- A modern computer
- Leibniz's stepped reckoner
Feedback: Correct - this was a purpose built device designed to do addition, subtraction, multiplication and division.

Babbage's analytical engine could operate calculations based on input from punched holes in card and outputting it. This was not purpose built but could do various calculations.

Students engage with feedback and correct answer in green font.

Incorrect 0/1 Points

Marks are awarded and feedback is provided.

2. Which of these is a general purpose device, designed to automate any process specified by a program? Tick all that apply. [?]

- The Pascaline
- Babbage's analytical engine
- The Antikythera mechanism
- A modern computer
Feedback: Correct - this is a general purpose computer, designed to execute any program given to it.
- Leibniz's stepped reckoner

Babbage's analytical engine could also operate calculations based on input from punched holes in card and outputting it. This was general purpose and could do various calculations.

✘ Incorrect 0/1 Points

5. Which of the following correctly describes the relationship between a program and instructions?



- It comprises/consists of instructions
- It executes instructions
- It operates on instructions

A computer system executes programs, which comprises of instructions, which operate on data.

✘ Incorrect 0/1 Points

7. Which of the following will appear on the specification of any modern computing system? Tick all that apply.

- Storage
- Graphics processor
- Memory
- Weight
- Input and output
- Connections
- Communication
- Processor

Students engage with feedback and correct answer in green font.

Not all computers require input or output, such as nuclear plants which have closed systems for safety.

Verbal feedback on misconceptions is provided during feedback episodes/lessons.