Kit’s Computing Challenge: Mastering Data

1. C) A database (1 mark)

Working: A database is designed to store and retrieve large sets of records efficiently.

1 mark for correct selection.

2. B) A cell (1 mark)

Working: The intersection of a row and column in a spreadsheet is defined as a cell.

1 mark for correct selection.

3. A) = (1 mark)

Working: Spreadsheet software requires an equals sign to initiate a mathematical function.

1 mark for correct selection.

4. False (1 mark)

Working: Data can be presented in various formats, including pie charts, bar charts, and line graphs.

1 mark for correct answer.

5. True (1 mark)

Working: Computers process data queries almost instantaneously.

1 mark for correct answer.

6. Formula (1 mark)

Working: A formula is the instruction used to perform calculations on cell data.

1 mark for correct term.

7. A) Sort (1 mark)

Working: Sorting arranges data in a specific order, such as ascending or descending.

1 mark for correct selection.

8. C) Line graph (1 mark)

Working: Line graphs are the standard tool for showing continuous change over time.

1 mark for correct selection.

9. B) To explain what the data represents (1 mark)

Working: Labels provide context so the reader understands the units and categories being measured.

1 mark for correct selection.

10. C) To hide irrelevant data (1 mark)

Working: Filtering allows the user to view only the specific records that meet certain criteria.

1 mark for correct selection.

What a secure answer looks like

A secure answer demonstrates an understanding that databases are for record management and spreadsheets are for numerical analysis. Pupils should be able to identify the correct software tool for specific data tasks.

If your child is stuck

Ask your child to imagine they are a librarian. Would they use a calculator to find a book (database) or a list to add up the cost of all the books (spreadsheet)?

Common mistakes to watch for

Confusing 'sorting' with 'filtering' (sorting changes the order, filtering hides items) and assuming all data must be presented in a bar chart.