

Kit's Computing Spreadsheet Challenge

Learning objective: To understand the structure, function, and application of spreadsheet software in data organisation.

Join Kit the fox in the digital den! Read the questions carefully and use your knowledge of rows, columns, and formulas to solve these computing puzzles. Write your answers clearly.

Answer Key: 1. A (Cell); 2. True; 3. Row; 4. B (Equals sign); 5. False (It automatically updates); 6. Column; 7. Formula; 8. C (£5.50); 9. True; 10. Data. Explanation for Greater Depth: A spreadsheet is powerful because it allows for dynamic recalculation; if the raw data changes, the output adjusts instantly, which is essential for accurate financial modelling and data analysis.

Word bank: Cell · Formula · Column · Row · Data · Spreadsheet · Autosum · Format

1. 1. What is the individual rectangular box where a row and a column meet called? A) Cell* B) Box C) Square D) Point (1 mark)

2. 2. True or False: Spreadsheets are primarily used to organise and analyse numerical information. (1 mark)

3. 3. Which horizontal arrangement of cells is identified by numbers on the left-hand side of the screen? (1 mark)

4. 4. Every calculation in a spreadsheet must begin with which symbol? A) Plus sign (+) B) Equals sign (=)* C) Hash (#) D) Question mark (?) (1 mark)

5. 5. True or False: If you change a number inside a cell that is part of a formula, you must manually rewrite the formula to see the new total. (1 mark)

6. 6. Which vertical arrangement of cells is identified by letters at the top of the screen? (1 mark)

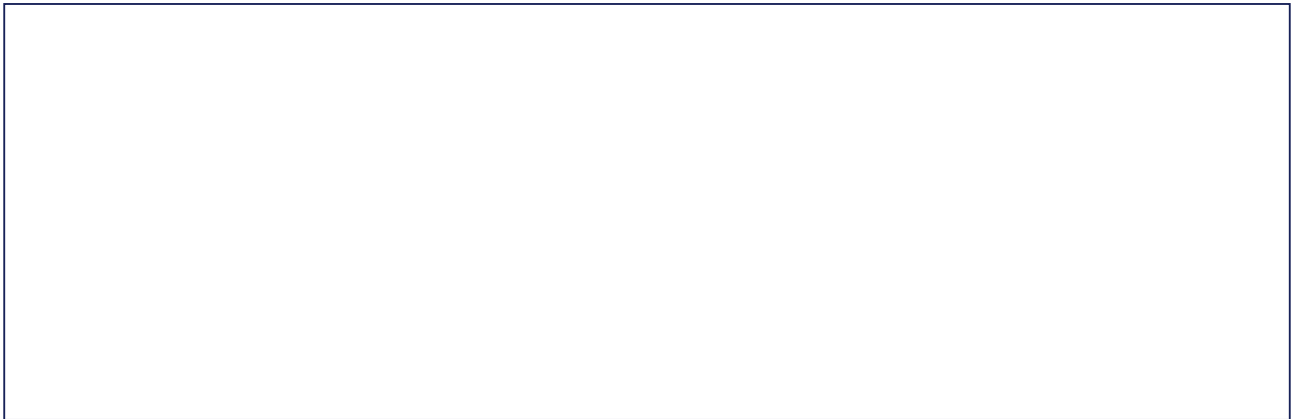
7. 7. What is the technical term for the instruction used to perform a calculation on the data in a spreadsheet? (1 mark)

8. 8. If cell A1 contains £2.00 and cell A2 contains £3.50, what would the result be if you used a formula to sum them? A) £5.00 B) £6.00 C) £5.50* D) £2.50 (1 mark)

9. 9. True or False: You can change the 'format' of a cell to display currency, percentages, or dates. (1 mark)

10. 10. What is the general term for the raw facts and figures that we input into a spreadsheet? (1 mark)

Draw: Draw a diagram of a simple spreadsheet grid. Label one column 'Price of Fruit' and one row 'Apple'. Inside the cell where they meet, draw a small apple and write a price in pounds and pence.



Extension challenge: Greater Depth Challenge: 1. Explain why using a formula is more efficient than calculating totals by hand. 2. Compare and contrast a database and a spreadsheet; when might you choose one over the other? 3. Justify your answer: If you were organising a school bake sale, how would a spreadsheet help you calculate profit compared to using a paper notebook? 4. What might happen if you entered text into a cell where a mathematical formula expects only numbers? 5. Design a spreadsheet structure that could track the costs of ingredients for a recipe. Which cells would you need? 6. If you were analysing a set of weather data, how would you use conditional formatting to highlight temperatures that are below 0°C?