

Computing Data Challenge

Cyber Security Incidents by Sector

You are part of a cyber security consultancy reviewing incident reports from UK organisations.

Dataset

Sector	Number of Incidents
Healthcare	320
Education	280
Retail	190
Financial Services	170
Manufacturing	120
Government	95

Step 1: Describe the Data

What does the data show?

Write three observations.

1. _____
2. _____
3. _____

Step 2: Analyse the Data

Why might healthcare and education experience more incidents?

Possible reasons:

- ☐ Large amounts of sensitive data

- ☐ Legacy IT systems
- ☐ Limited budgets
- ☐ Human error
- ☐ Increased targeting by attackers
- ☐ Other:

Which explanation appears strongest?

Why?

Step 3: Evaluate the Evidence

What information would improve your confidence in the findings?

- ☐ Organisation size
- ☐ Number of employees
- ☐ Severity of incidents
- ☐ Reporting criteria
- ☐ Attack types
- ☐ Time period

What assumptions might people make when looking at this data?

Step 4: Critical Analysis

A newspaper headline states:

"Healthcare is the least secure sector in the UK."

Do the data support this conclusion?

Why or why not?

Step 5: Recommendations

What actions should organisations prioritise?

Challenge Question

Imagine healthcare organisations are three times larger than manufacturing organisations.

How might this affect your interpretation?
