

(Always answer the question)

## Data Visualisation Topic test

- ↓ a The headline may not be appropriate because the graph only displays percentages, not the actual numbers (which are unknown)
- b
- ↳ There is an increasing trend in news consumption for social media between 2013 and 2015, and then it remains stable
  - ↳ There is a downwards trend in news consumption for TV over 2013 to 2022
  - ↳ The trend for online news consumption remains stable over 2013 to 2022
- c e.g.
- There is no colour on the graph making the lines difficult to distinguish
  - Only percentages are shown, not actual numbers
  - "Online" includes social media and there is already a line for social media

(Bullet points)

$$\frac{2}{\frac{2023 \text{ addition}}{\text{total capacity}}} = \frac{473}{3870} = 0.122... = \underline{\underline{12.2\%}}$$

- b e.g.
- Difficult to distinguish between Canada, Africa and South America
  - The graph changes both up and down making it difficult to compare changes.
- c e.g.
- Pictures of wind turbines overlap onto the graph
  - Difficult to read exact values on either axis

(not on graph but in question)

3  $\rightarrow 0.24 \times 23000 = \underline{\underline{5520}}$

- b
- "Every day or most days" written on its side making it difficult to read
  - "Less often" is ambiguous
  - Sizes of rectangles do not seem to be meaningful

$\leq$  e.g. Pie chart or Bar chart.

- 4 a The line likely represents the average cumulative rainfall in certain months over 1991 to 2020

This is to provide a benchmark to compare 2022 to.

- b The average cumulative rainfall in 2022 was lower than the average over 1991 to 2020

$\leq$  in December, the highest average cumulative rainfall is around 1400  
but the lowest is around 800  $\leftarrow (750-850)$

So the range is  $1400 - 800 = 600$

$\times (575-625)$

- d e.g.
- Scales are not clear enough to read accurately
  - Extra "colours" are not defined
  - 2021 is missing

(Focus on comparisons)

- 5 a e.g.
- Satisfaction of Diversity is highest overall
  - Satisfaction of wages is higher in Finance than Sales
  - Satisfaction of wages was highest rated in all of Finance, compared to other factors etc.

b , Advantage e.g. Can compare satisfaction ratings across aspects easily

$\rightarrow$  Disadvantage e.g. Stacked bar charts require more knowledge to interpret.