

Quiz - Graph Construction

Started on 12/04/2025 at 5:19 PM - Ended on 12/04/2025 at 5:28 PM

Progression: Managed by the host

Question 1

Question

A bar chart should typically use a scale that:

Answers (44)

- a. Is logarithmic (0% - 0)
- b. Uses unequal tick intervals (0% - 0)
- c. Starts at the minimum data value (17% - 8)
- d. Starts at zero (78% - 36) - Correct answer

Question 2

Question

When labels are long and categories many, which is often better?

Answers (45)

- a. Vertical bars (4% - 2)
- b. Streamgraph (2% - 1)
- c. Donut chart (0% - 0)
- d. Horizontal bars (91% - 42) - Correct answer

Question 3

Question

Which visualization does not require a zero-based axis to compare values?

Answers (45)

- a. Lollipop (zero-based) (17% - 8)
- b. Stacked bars (4% - 2)
- c. Dot plot (74% - 34) - Correct answer
- d. Bars (2% - 1)

Question 4

Question

To show pre vs. post values for several categories with emphasis on change, pick:

Answers (44)

- a. Donut chart (0% - 0)
- b. Treemap (0% - 0)
- c. Area chart (0% - 0)
- d. Slope chart (96% - 44) - Correct answer

Question 5

Question

Most appropriate part-to-whole display when there are many categories to compare across groups:

Answers (45)

- a. Stacked area (2% - 1)
- b. Stacked bars (especially 100%) (87% - 40) - Correct answer
- c. Pie charts (4% - 2)
- d. Bubble chart (4% - 2)

Question 6

Question

Which statement about pie charts aligns with best practice from the slides?

Answers (44)

- a. Always prefer pie over bars for part-to-whole (0% - 0)
- b. Great with 8–10 slices of similar size (0% - 0)
- c. Use for small numbers of categories with distinct proportions; avoid rainbow palettes (96% - 44) - Correct answer
- d. Fine for ordered quantitative scales (0% - 0)

Question 7

Question

Overplotting in scatter plots can be mitigated by:

Answers (44)

- a. Switching to 3D (0% - 0)
- b. Using transparency, jittering, small/outlined marks (96% - 44) - Correct answer
- c. Increasing point size (0% - 0)
- d. Removing axes (0% - 0)

Question 8

Question

Heatmaps are tricky because rainbow palettes:

Answers (44)

- a. Convey a natural order in hue (0% - 0)
- b. Are perceptually uniform for most people (2% - 1)
- c. Can be problematic for color-blind viewers; intensity carries order better (93% - 43) - Correct answer
- d. Always improve discrimination (0% - 0)

Question 9

Question

Dashboards should primarily be:

Answers (45)

- a. Single-screen, concise, goal-oriented, with the right measures and references (96% - 44) - Correct answer
- b. Packed with second-level timestamps and decimals (0% - 0)
- c. Decorative, skeuomorphic, 3D, and gradient-rich (2% - 1)
- d. Optimized for surprise rather than monitoring (0% - 0)

Question 10

Question

When comparing two time series with different units, the slides suggest:

Answers (43)

- a. Plot both on a log axis to “normalize” units (17% - 8)
- b. Prefer separate aligned panels (small multiples) as a safer default (72% - 33) - Correct answer
- c. Always use a dual Y-axis (2% - 1)
- d. Encode one as area, one as bubbles (2% - 1)