

Selecting appropriate displays



Name each display below, then choose the best display for each scenario and justify your choice.

Name _____

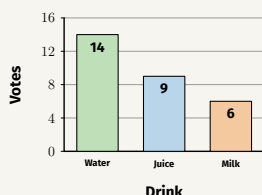
Date _____

Matching data to a display

Categories suit a bar graph or pie chart. Change over time suits a line graph (time series). Grouped continuous numbers suit a histogram. Small sets of individual whole-number values suit a dot plot. A pictogram uses repeated icons for a count. A scatter plot shows the relationship between two numerical variables. A box-and-whisker graph shows the five-number summary.

Worked example

Name this display, and describe the kind of data it is best suited to show.

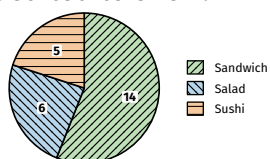


Bar graph.

Favourite drink is categorical data – Water, Juice, and Milk are separate, unordered groups.

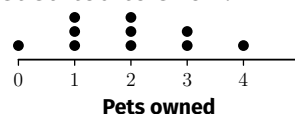
The gap between each bar shows the categories are separate; the height of each bar shows its frequency.

1. Name this display, and describe the kind of data it is best suited to show.



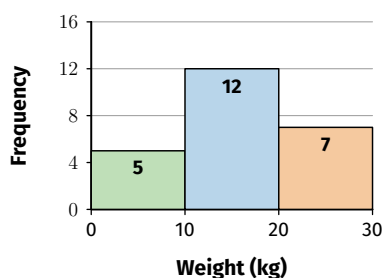
Working

2. Name this display, and describe the kind of data it is best suited to show.



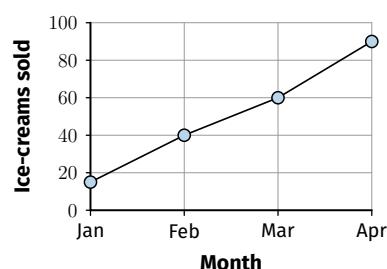
Working

3. Name this display, and describe the kind of data it is best suited to show.



Working

4. Name this display, and describe the kind of data it is best suited to show.



Working

Selecting appropriate displays (continued)

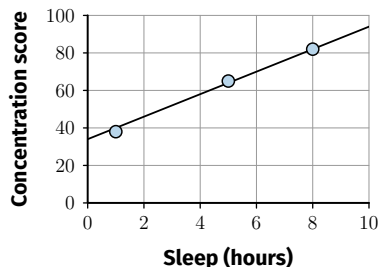


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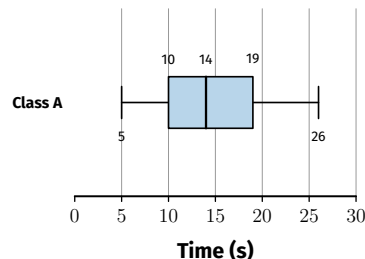
Date _____

5. Name this display, and describe the kind of data it is best suited to show.



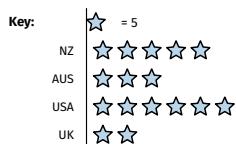
Working

6. Name this display, and describe the kind of data it is best suited to show.



Working

7. Name this display, and describe the kind of data it is best suited to show.



Working

8. Choose the best display for the favourite lunch option in a class, and justify your choice.

9. Choose the best display for the temperature inside an oven as it preheats, taken every 30 seconds, and justify.

10. Choose the best display for the lengths of river fish grouped into 5 cm intervals, and justify.

Selecting appropriate displays (continued)

Choose the best display for each scenario, and justify your choice.



Name _____

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11. Choose the best display for the exact number of goals scored by each player in a small team, and justify.

12. Choose the best display to compare the median and spread of two classes' spelling test scores, and justify.

13. Choose the best display to see whether there is a relationship between screen time and hours of sleep, and justify.

14. A student uses a pie chart to show the rainfall each month for a year. Explain why this is a poor choice, and name a better display.

15. A student says a bar graph and a histogram are the same thing. Give one difference between them.

16. Choose the best display for the sale price of a car recorded every month for three years, and justify.

