

Build Tasks



Name the display and give one clear reason linked to the type of data or to what needs to be shown.

1. A café records how many coffees it sells each day for 20 days. Which display is best, and why?

2. A survey asks students their favourite music genre. Which display is best for showing the frequencies, and why?

3. A gardener records the masses of tomatoes and sorts them into 25 g intervals. Which display is best, and why?

4. A student records how many runs their team scored in each cricket match this season. Which display is best, and why?

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5. A hospital compares the recovery times of two treatments and wants to show the median and spread of each. Which display is best, and why?

6. A class records the number of pets each student owns. Which display is better: dot plot or pie chart? Explain.

7. A scientist measures the temperature of a cooling liquid every minute for 20 minutes. Which display is best, and why?

8. A shop groups customer incomes into \$10,000 bands. Which display is better: histogram or bar graph? Explain.

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Some situations have two reasonable-looking displays – choose the one that keeps individual values visible or makes the comparison clearest.

9. A student wants to show what fraction of the class prefers each of 3 sports. Which display is best, and why?

10. A coach wants one display that compares the median and spread of sprint times for two squads. Which display is best, and why?

11. A teacher writes the exact spelling test score out of 10 for each student in a small class. Which display is better: dot plot or histogram? Explain.

12. A report shows the number of visitors to a museum each month for a year. Which display is better: line graph or pie chart? Explain.

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Some displays are chosen because they make a particular point clear, not just because the data allows it.

13. A council wants to show the number of medals won by five regions using an easy-to-read display built from repeated icons. Which display is best, and why?

14. A researcher wants to see whether there is a relationship between study hours and exam mark. Which display is best, and why?

15. A company tracks its share price at the close of trading every day for six months. Which display is best, and why?

16. A survey asks each student to choose one favourite subject from a list of seven. Which display is best for comparing how many students chose each subject, and why is it better than a pie chart here?