

137. Creating and Interpreting Charts (Bar, Pie, Line, Pictograms)

Practice Questions

1. A bar chart shows the number of students choosing different sports. If 15 students pick football, 20 pick basketball, and 10 pick tennis, how many students are represented in total?
2. A pie chart represents the favorite subjects of 60 students. If half the circle is Maths, how many students chose Maths?
3. A line graph shows the temperature over 5 days: Monday: 10°C , Tuesday: 12°C , Wednesday: 15°C , Thursday: 14°C , Friday: 16°C . What was the highest temperature?
4. A pictogram shows car sales where each symbol represents 5 cars. If there are 8 symbols for blue cars, how many blue cars were sold?
5. A bar chart shows the number of books read by 5 students. If the tallest bar represents 12 books, what is the mode of books read?
6. A pie chart represents pizza toppings. If pepperoni covers 90° of the chart, what fraction of the pizza orders were pepperoni?
7. A line graph shows rainfall over a month. The highest rainfall was 20 mm, and the lowest was 5 mm. What was the difference?
8. A pictogram represents pets in a town. If cats are represented by 6 symbols and each symbol = 10 cats, how many cats are in town?
9. A bar chart shows exam scores for 4 students: Alex - 70, Ben - 80, Cara - 75, Dani - 85. Who scored the highest?
10. A pie chart represents the colors of 100 cars in a car park. If red cars make up 25% of the chart, how many red cars are there?

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Scenario Questions

1. A school records attendance for 5 days: Monday - 95%, Tuesday - 90%, Wednesday - 92%, Thursday - 88%, Friday - 96%. Display this on a line graph and determine the lowest attendance.
2. A supermarket tracks fruit sales: apples - 40, bananas - 35, oranges - 25, grapes - 20. Represent this in a bar chart and find the most popular fruit.
3. A cinema records ticket sales: Monday - 200, Tuesday - 150, Wednesday - 180, Thursday - 220, Friday - 300. Draw a line graph and find the busiest day.
4. A pie chart represents TV show preferences for 80 viewers. If comedy covers 120° , how many viewers prefer comedy?
5. A pictogram shows bus arrivals, where each symbol = 2 buses. If there are 15 symbols for morning buses, how many buses arrived in the morning?
6. A bar chart shows monthly electricity use: January - 300 kWh, February - 280 kWh, March - 250 kWh, April - 270 kWh. Which month had the lowest consumption?
7. A pie chart represents students' travel methods: 50% walk, 30% take the bus, 20% use a car. If there are 200 students, how many travel by bus?
8. A line graph tracks school test scores over time. If scores start at 55, rise to 75, drop to 60, then increase to 80, when was the lowest score recorded?
9. A bar chart compares daily step counts for 5 days: Monday - 8000, Tuesday - 7500, Wednesday - 9000, Thursday - 8500, Friday - 9500. Which day had the highest steps?
10. A pictogram tracks books borrowed from a library, where each symbol represents 3 books. If there are 12 symbols, how many books were borrowed?

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Practice Questions

1. **Total students:** 45
2. **Students who chose Maths:** 30
3. **Highest temperature:** 16°C
4. **Blue cars sold:** 40
5. **Mode of books read:** 12
6. **Fraction of pepperoni orders:** $\frac{1}{4}$
7. **Difference in rainfall:** 15 mm
8. **Number of cats:** 60
9. **Highest scorer:** Dani
10. **Red cars:** 25

Scenario Questions

1. **Lowest attendance:** 88%
2. **Most popular fruit:** Apples
3. **Busiest day:** Friday
4. **Viewers who prefer comedy:** 26.67 (or approximately 27)
5. **Morning buses arrived:** 30
6. **Lowest consumption month:** March
7. **Students who travel by bus:** 60
8. **Lowest score recorded:** At the start
9. **Day with the highest steps:** Friday
10. **Books borrowed:** 36

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Answers

The word "naths" in a light grey, lowercase, sans-serif font, positioned above a light grey triangle.