

Interpreting pie charts & pictograms



Read the percentages and keys carefully before you calculate.

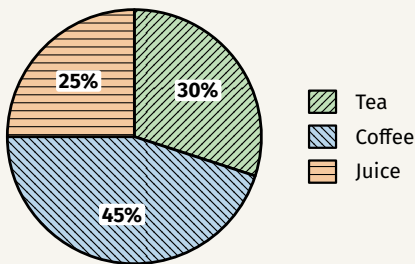
Name _____

Date _____

Reading pie charts and pictograms

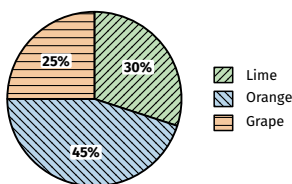
A pie chart's sectors show percentages of a total – multiply the percentage by the total to find an actual amount. A pictogram's key tells you how many units one whole icon stands for; a half icon stands for half that many.

Worked example This pie chart shows a survey of 40 students. What percentage chose Coffee, and how many students is that?



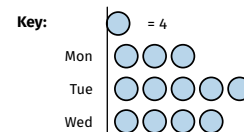
Coffee = 45% of the survey.
 $45\% \text{ of } 40 = 0.45 \times 40 = 18 \text{ students.}$

1. What percentage chose Orange?



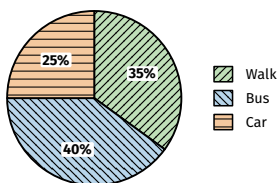
Working

2. The pictogram shows books borrowed. How many were borrowed on Wednesday?



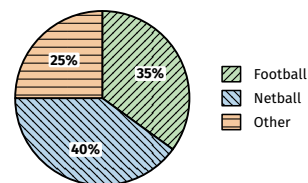
Working

3. Which is the most common way to travel?



Working

4. This pie chart shows 200 students. How many chose Netball?



Working

Interpreting pie charts & pictograms (continued)

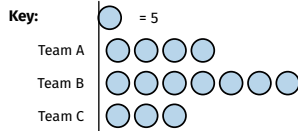


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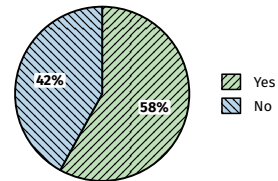
Date _____

5. The pictogram shows medals won. How many medals did Team B win?



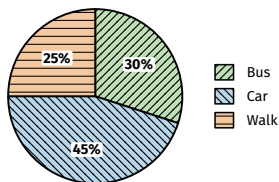
Working

6. What percentage said No?



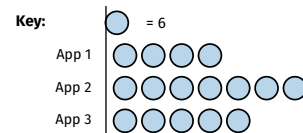
Working

7. This pie chart shows 280 people. How many travel by Car?



Working

8. The pictogram shows app downloads. How many downloads did App 1 and App 3 have together?



Working

Interpreting pie charts & pictograms (continued)

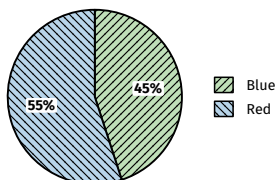


The angle of a sector is its fraction of the data $\times 360^\circ$.

Name _____

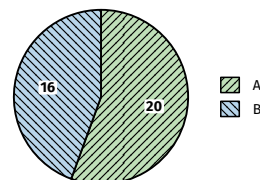
Date _____

9. Calculate the angle of the sector for Blue.



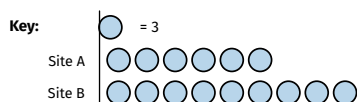
Working

10. This pie chart shows raw counts. Find the total, then the angle of sector A.



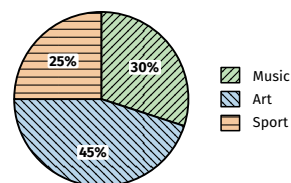
Working

11. The pictogram shows trees planted. How many more trees at Site B than Site A?



Working

12. This pie chart shows 360 people. How many chose Art?



Working

Interpreting pie charts & pictograms (continued)



The angle of a sector is its fraction of the data $\times 360^\circ$.

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13. A pie chart sector has an angle of 90° . What percentage does it represent?

14. A survey of 96 people is shown in a pie chart. One sector has an angle of 60° . How many people does this sector represent?

15. A pie chart shows 3 categories: 38%, 27%, and an unknown percentage. What is the unknown percentage?
