Charts and graphs

Name: _____ **Date:** _____



Mr Boston says: Always check the scale on the axes: one square might mean 2, 5 or 10.

A. Tables and pie charts

Pupils were asked how they travel to school.

1 How many pupils were asked altogether?

Travel	Walk	Car	Bus	Bike
Frequency	12	9	10	5

Answer: _____

2 Pie chart angle for Walk

Answer: _____

3 Pie chart angle for Car

Answer: _____

4 Pie chart angle for Bus

Answer: _____

5 Pie chart angle for Bike

Answer: _____

6 Which method of travel is the mode?

Answer: _____

B. Reading and choosing charts

7 In a pie chart of 60 people, a slice is 120°. How many people is that?

Answer: _____

8 A pie chart of 45 pupils: how many degrees represent one pupil?

Answer: _____

9 As the age of a car goes up, its value goes down. What correlation is this?

Answer: _____

10 What correlation would you expect between height and arm span?

Answer: _____

11 Draw a bar chart for the travel data above. What should you label?

Answer: _____

12 A line graph shows temperature rising from 4 °C at 06:00 to 15 °C at 14:00. By how much did it rise?

Answer: _____

Answers for grown-ups

Charts and graphs

1. How many pupils were asked altogether? → **36**
2. Pie chart angle for Walk → **120°**
3. Pie chart angle for Car → **90°**
4. Pie chart angle for Bus → **100°**
5. Pie chart angle for Bike → **50°**
6. Which method of travel is the mode? → **Walk**
7. In a pie chart of 60 people, a slice is 120°. How many people is that? → **20**
8. A pie chart of 45 pupils: how many degrees represent one pupil? → **8°**
9. As the age of a car goes up, its value goes down. What correlation is this? → **negative correlation**
10. What correlation would you expect between height and arm span? → **positive correlation**
11. Draw a bar chart for the travel data above. What should you label? → **title, both axes, and bars with equal widths and gaps**
12. A line graph shows temperature rising from 4 °C at 06:00 to 15 °C at 14:00. By how much did it rise? → **11 degrees**