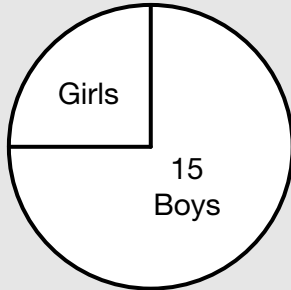


Statistics

Examples

1 **Number of pupils in class 6HB**



If there are 15 boys in the class, how many pupils are there all together?
How many girls are in the class?

Method:

$\frac{3}{4}$ of the class are boys so $\frac{1}{4}$ of the class is 5 pupils.

This means that there are 20 pupils in total.

Answer:

20 pupils total;
5 girls

2 Four pupils are aged 10, 8, 12 and 6. What is their **mean** age?

Method:

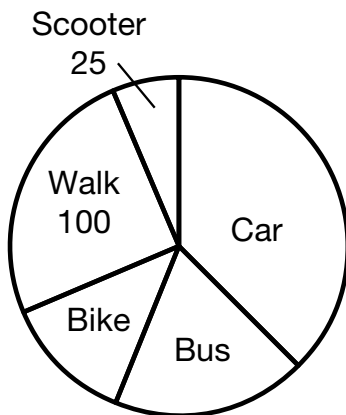
$$\text{mean} = \frac{\text{sum of all values}}{\text{number of values}}$$

Answer:

$$\text{mean} = \frac{10 + 8 + 12 + 6}{4} = \frac{36}{4} = 9$$

Ⓐ Answer these questions. You do not need to show your workings out.

Transport used to get to school



1 Using a protractor, calculate how many pupils went to school by bike. _____

 [1]

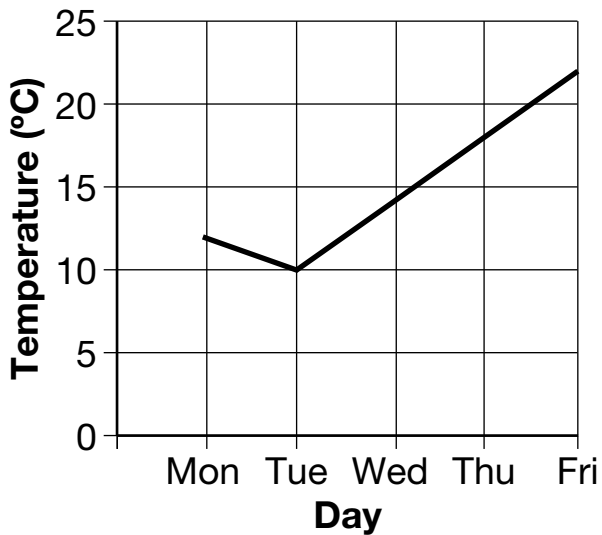
2 Which is the least popular form of transport and how many pupils used it? _____

 [1]

3 How many pupils does the pie chart represent in total? _____

 [1]

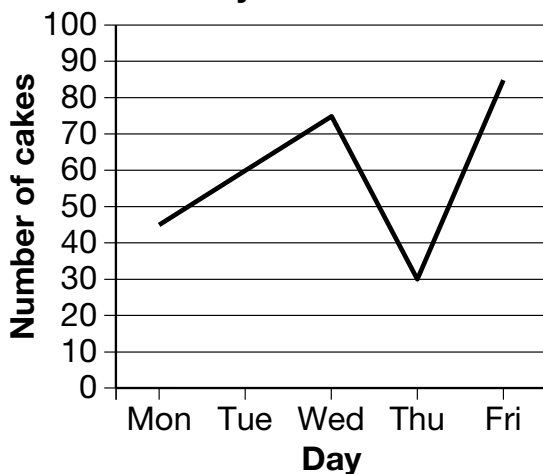
Daily maximum temperature



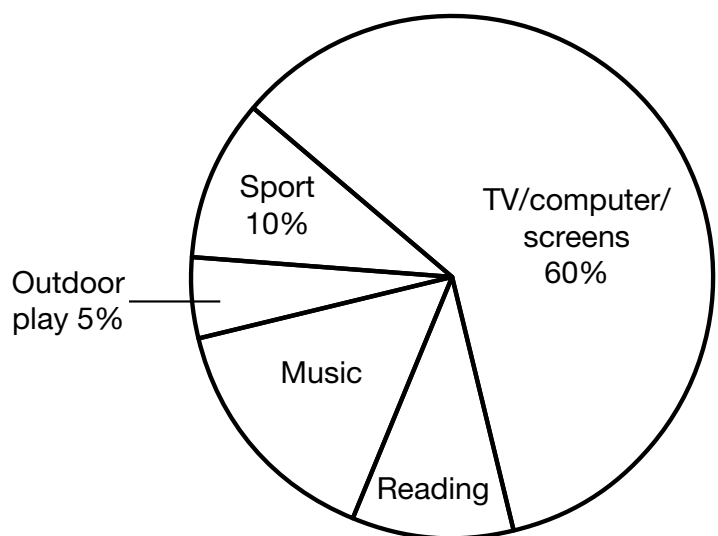
- 4 Which day had the lowest temperature? _____ [1]
- 5 What is the difference between the highest and lowest temperature? _____ °C [1]
- 6 What was the mean temperature for all 5 days? _____ °C [1]

Ⓑ Use the information below to answer these questions and show your workings out.

Daily sales of cakes



Leisure time of pupils

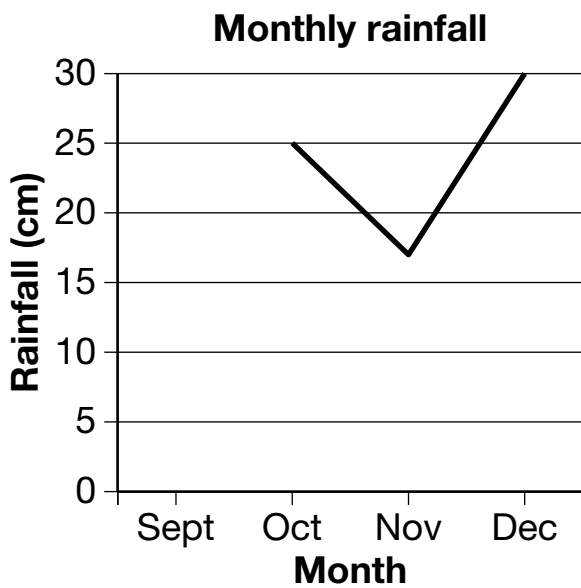


- 6 75 minutes were spent on outdoor play.
What is the total time spent on all the activities?

Show your workings



- © Answer these questions. You do not need to show your workings out.



- 1 There were 22 mm of rainfall in September. Mark this on the line graph and join up the line.



- 2 What was the lowest rainfall and in which month?

_____ mm in the month of _____



- 3 What was the total rainfall from October to December inclusive?

_____ mm



- 4 What was the mean rainfall from September to December inclusive?

_____ mm



Unit 10

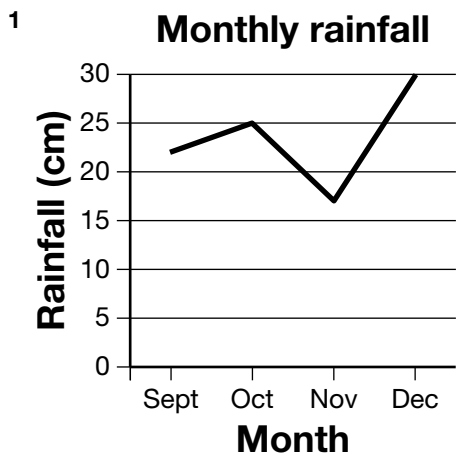
(A)

- 1 50
- 2 scooter; 25 people
- 3 $4 \times 100 = 400$
- 4 Tuesday
- 5 $22 - 10 = 12^\circ\text{C}$
- 6 $\frac{12 + 10 + 14 + 18 + 22}{5} = \frac{76}{5} = 15.2^\circ\text{C}$

(B)

- 1 $85 - 30 = 55$
- 2 $45 + 60 + 75 = 180$
- 3 $\frac{30 + 85 + 180}{5} = \frac{295}{5} = 59$
- 4 10%
- 5 $100 - 10 - 10 - 60 - 5 = 15\%$
- 6 $5\% = 75$ so $10\% = 150$ then $100\% = 1500$ mins or 25 hrs

(C)



- 2 17 mm in the month of November
- 3 $25 + 17 + 30 = 72$ mm
- 4 $\frac{22 + 72}{4} = \frac{94}{4} = 23.5$ mm