



ACHIEVE ACADEMY

GCSE Maths — Foundation Tier

Data Representation: Bar Charts & Pie Charts · Practice Booklet

NAME: _____

CLASS: _____

DATE: _____

☐ Developing

☒ Secure

☐ Greater Depth

Answer every question in the working space provided. Method marks are available for correct working even if the final answer is wrong. Check the time allowed with your tutor before you start.

Data Representation: Bar Charts & Pie Charts

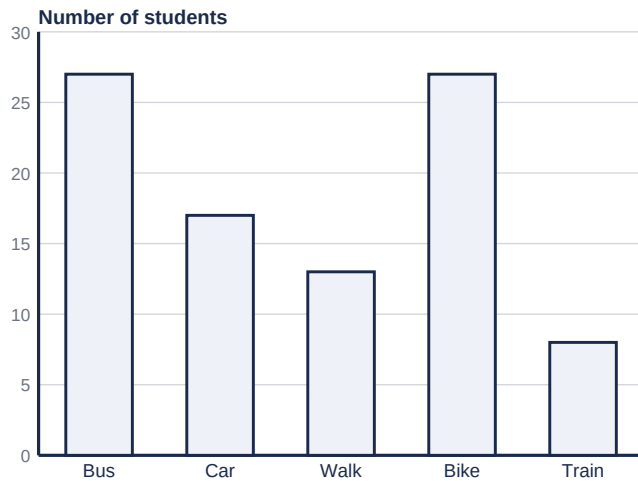
Total marks available: 68

● Data Representation: Bar Charts & Pie Charts

Q1

[1 mark]

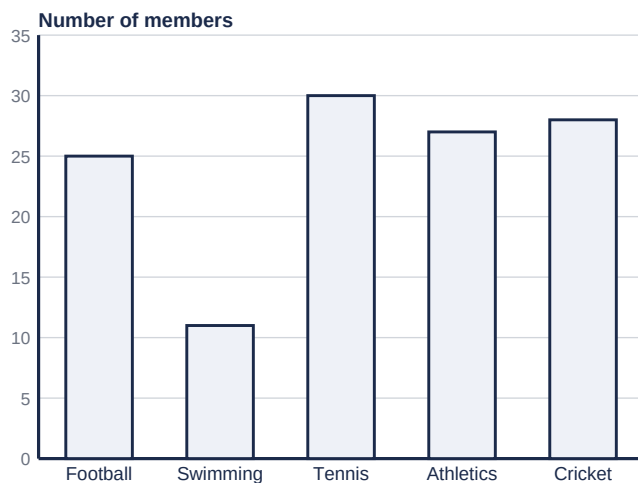
The bar chart shows how they travel to school for a group of students. How many students chose Train?



Q2

[1 mark]

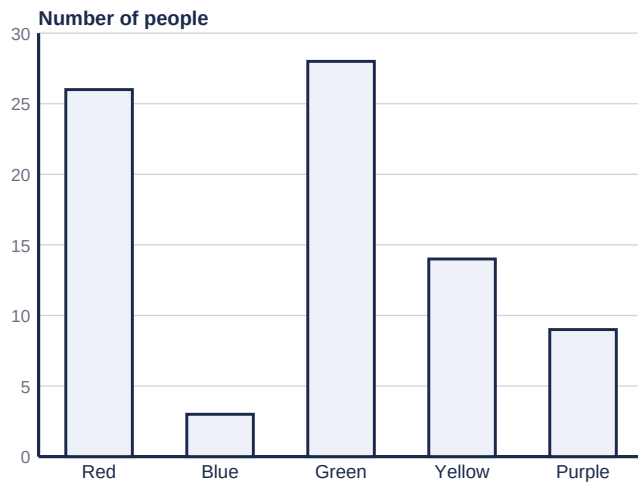
The bar chart shows favourite sport for a group of members. How many members chose Athletics?



Q3

[2 marks]

The bar chart shows favourite colour for a group of people. Find the total number of people represented.



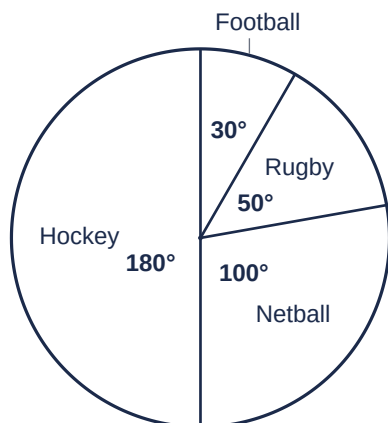
Q4

[2 marks]

The pie chart shows the favourite sport of some students.

(a) Which sport is the mode?

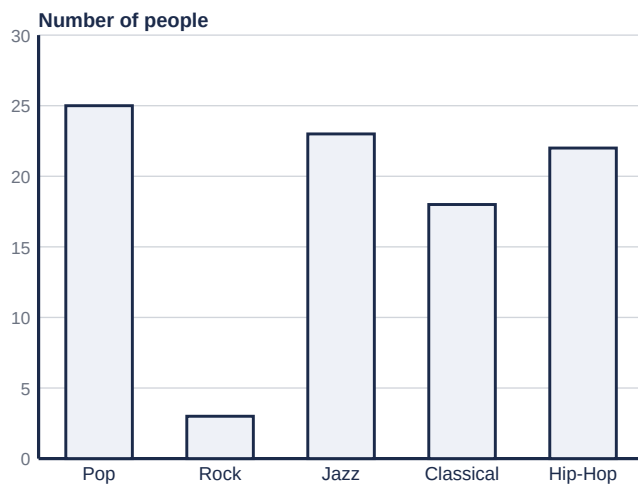
(b) What fraction of the students chose Football? Give your answer in its simplest form.



Q5

[1 mark]

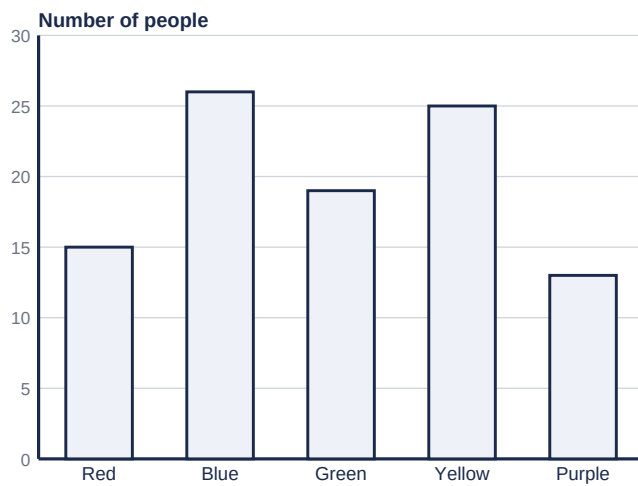
The bar chart shows favourite music genre for a group of people. How many people chose Rock?



Q6

[1 mark]

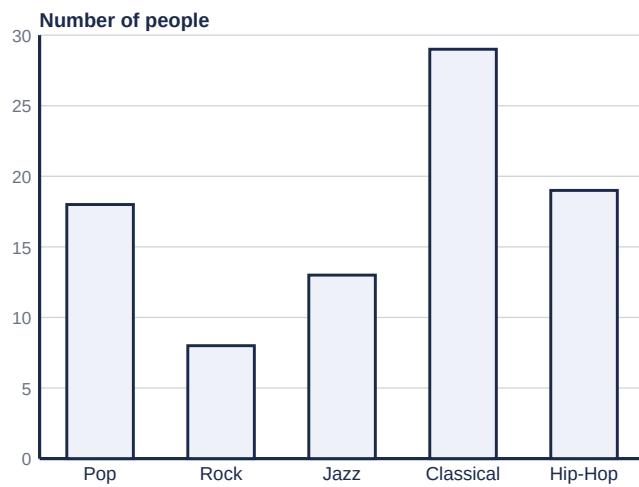
The bar chart shows favourite colour for a group of people. How many people chose Purple?



Q7

[2 marks]

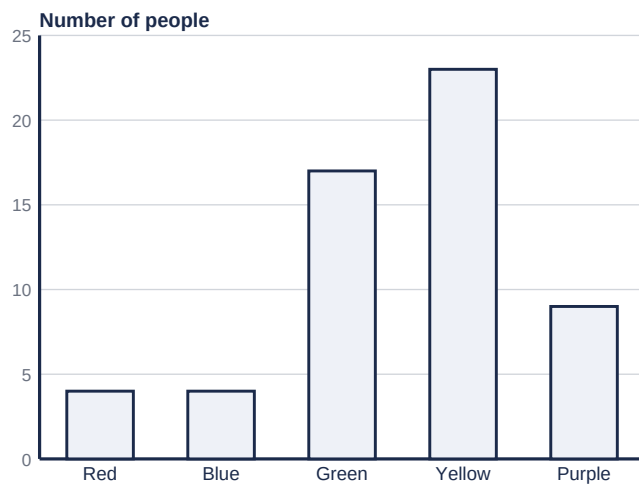
The bar chart shows favourite music genre for a group of people. Find the total number of people represented.



Q8

[2 marks]

The bar chart shows favourite colour for a group of people. Find the total number of people represented.



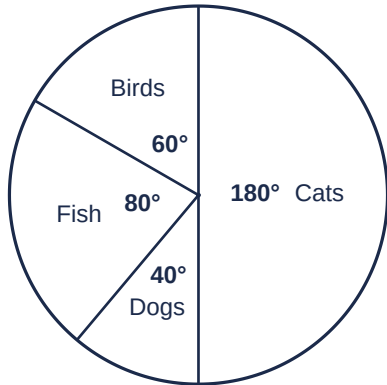
Q9

[2 marks]

The pie chart shows the favourite pet of some households.

(a) Which pet is the mode?

(b) What fraction of the households chose Fish? Give your answer in its simplest form.



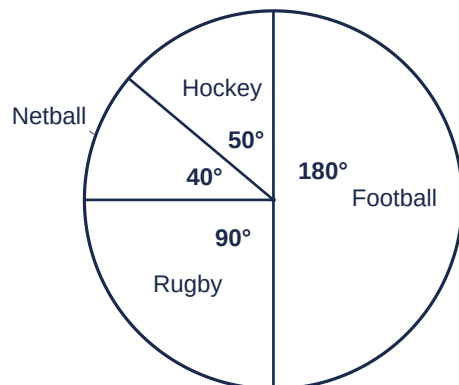
Q10

[2 marks]

The pie chart shows the favourite sport of some students.

(a) Which sport is the mode?

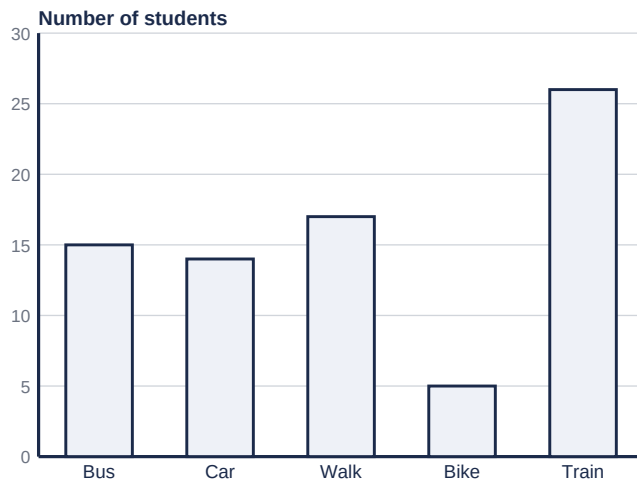
(b) What fraction of the students chose Football? Give your answer in its simplest form.



Q11

[2 marks]

The bar chart shows how they travel to school for a group of students. How many more students chose Train than Walk?



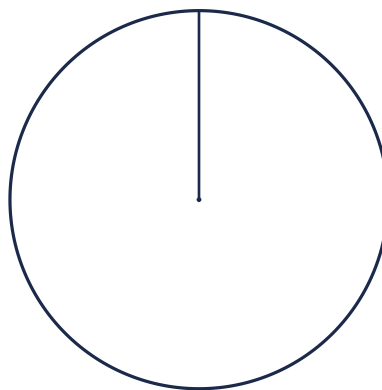
Q12

[4 marks]

The table shows the favourite transport of 60 employees.

- (a) Complete the table by working out the angle for each sector.
 (b) Draw a pie chart to show the information.

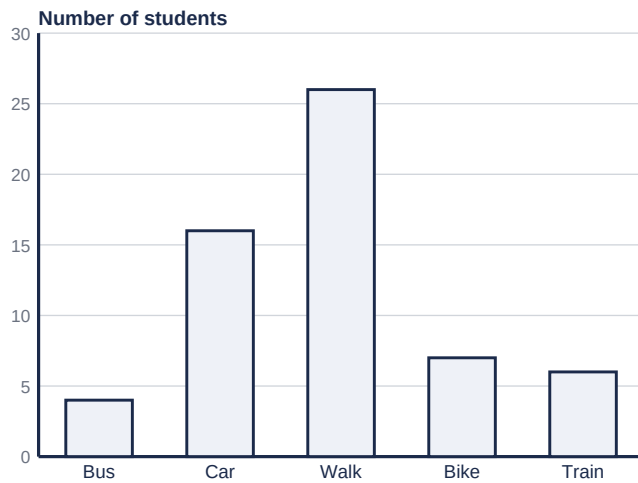
Transport	Frequency	Angle
Bus	10	
Car	12	
Walk	23	
Cycle	15	



Q13

[2 marks]

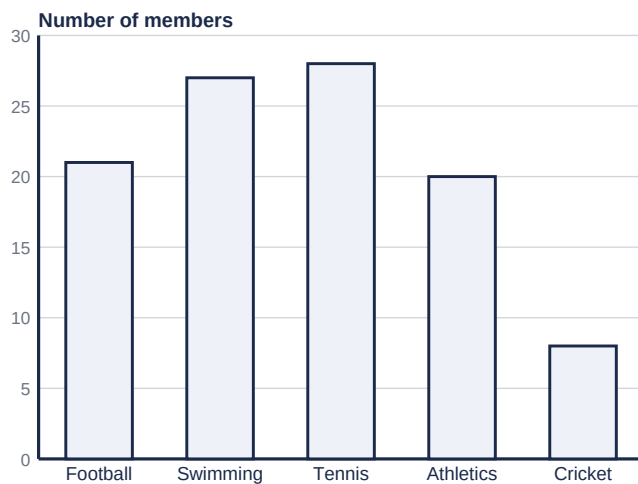
The bar chart shows how they travel to school for a group of students. How many more students chose Car than Train?



Q14

[2 marks]

The bar chart shows favourite sport for a group of members. How many more members chose Football than Cricket?



Q15

[2 marks]

The table shows information about the favourite sport of 30 students. A pie chart is drawn to show this information. Work out the angle of the sector for Netball.

Sport	Frequency
Football	15
Rugby	8
Netball	4
Hockey	3

Q16

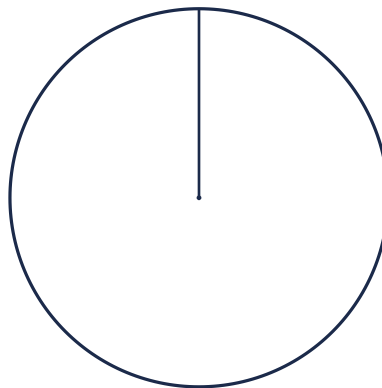
[4 marks]

The table shows the favourite pet of 20 households.

(a) Complete the table by working out the angle for each sector.

(b) Draw a pie chart to show the information.

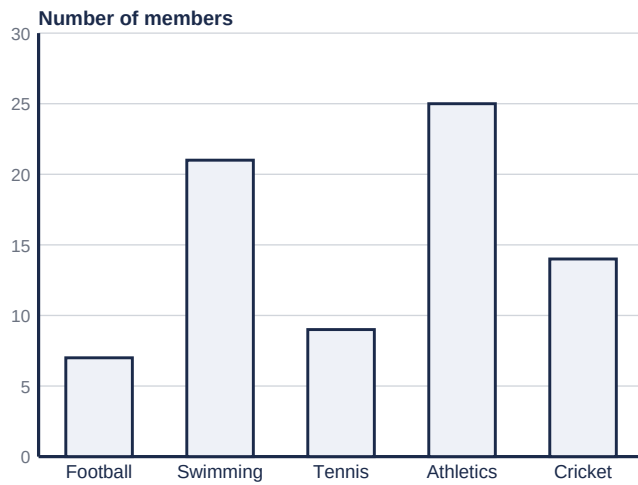
Pet	Frequency	Angle
Cats	7	
Dogs	5	
Fish	6	
Birds	2	



Q17

[2 marks]

The bar chart shows favourite sport for a group of members. How many more members chose Cricket than Tennis?



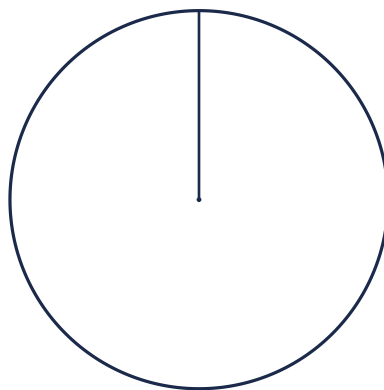
Q18

[4 marks]

The table shows the favourite type of film of 60 viewers.

- (a) Complete the table by working out the angle for each sector.
 (b) Draw a pie chart to show the information.

Type of film	Frequency	Angle
Comedy	8	
Drama	9	
Action	38	
Documentary	5	



Q19

[2 marks]

The table shows information about the favourite sport of 30 students. A pie chart is drawn to show this information. Work out the angle of the sector for Hockey.

Sport	Frequency
Football	7
Rugby	6
Netball	7
Hockey	10

Q20

[2 marks]

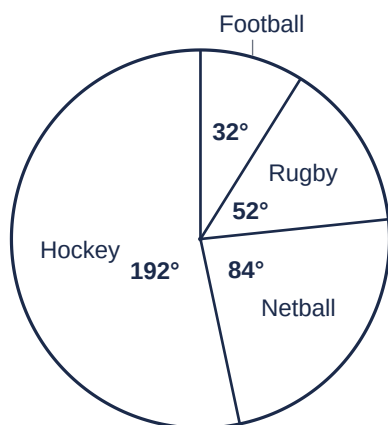
The table shows information about the favourite sport of 36 students. A pie chart is drawn to show this information. Work out the angle of the sector for Rugby.

Sport	Frequency
Football	18
Rugby	3
Netball	5
Hockey	10

Q21

[2 marks]

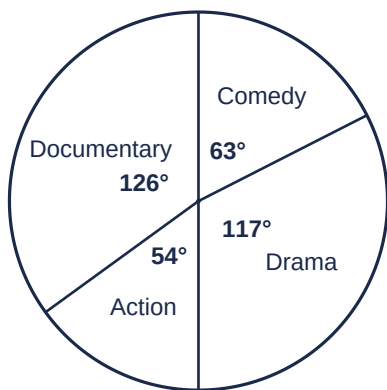
The pie chart shows the favourite sport of 90 students. Work out the number of students who chose Football.



Q22

[2 marks]

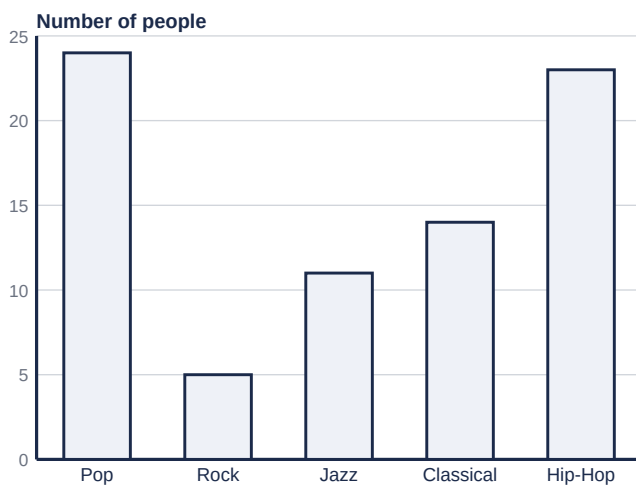
The pie chart shows the favourite type of film of 40 viewers. Work out the number of viewers who chose Comedy.



Q23

[3 marks]

The bar chart shows favourite music genre for a group of people. (a) State the modal category. (b) Find the range of the frequencies.



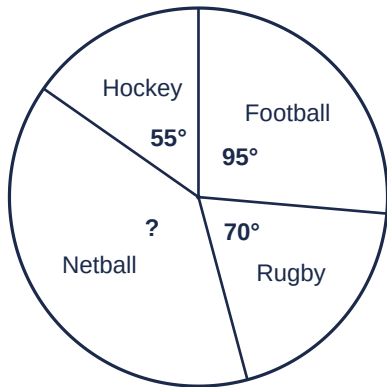
Q24

[3 marks]

The pie chart shows the favourite sport of 72 students. The angle for Netball is missing.

(a) Work out the angle for Netball.

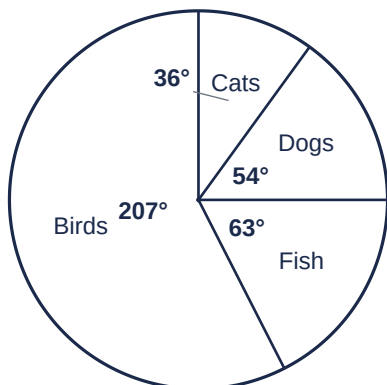
(b) Work out the number of students who chose Netball.



Q25

[2 marks]

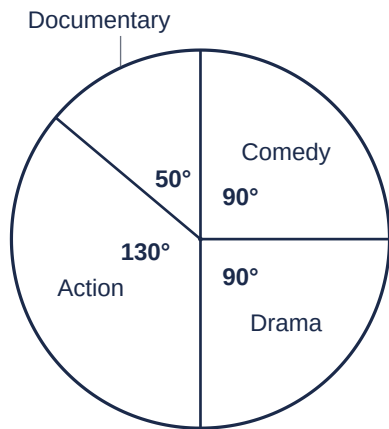
The pie chart shows the favourite pet of 40 households. Work out the number of households who chose Dogs.



Q26

[2 marks]

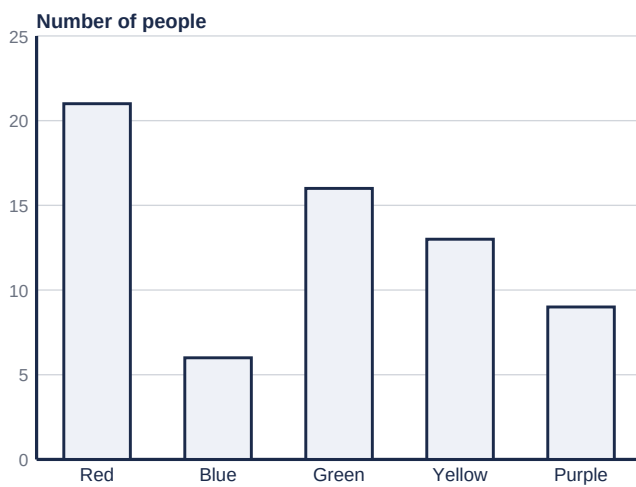
The pie chart shows the favourite type of film of 36 viewers. Work out the number of viewers who chose Documentary.



Q27

[3 marks]

The bar chart shows favourite colour for a group of people. (a) State the modal category. (b) Find the range of the frequencies.

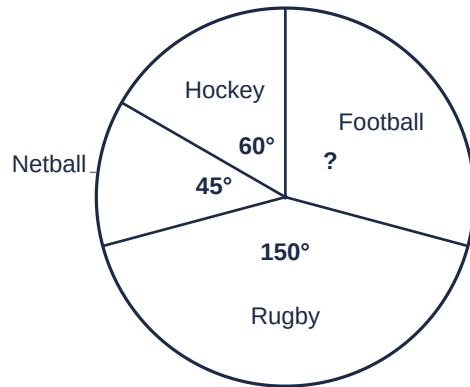


Q28

[3 marks]

The pie chart shows the favourite sport of 24 students. The angle for Football is missing.

- (a) Work out the angle for Football.
(b) Work out the number of students who chose Football.

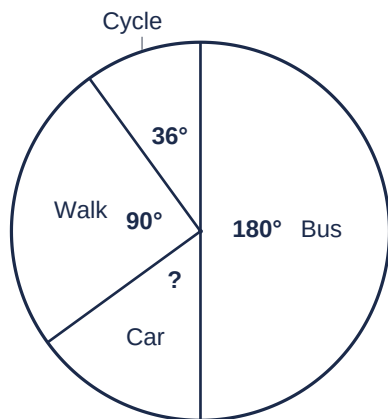


Q29

[3 marks]

The pie chart shows the favourite transport of 20 employees. The angle for Car is missing.

- (a) Work out the angle for Car.
(b) Work out the number of employees who chose Car.



Q30

[3 marks]

The bar chart shows how they travel to school for a group of students. (a) State the modal category. (b) Find the range of the frequencies.

