MME
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GCSE MATHEMATICS

AQA | Edexcel | OCR | WJEC

Bar Graphs

Please write clearly in block capitals

Forename:	
Surname:	

Materials

For this paper you must have:
- mathematical instruments

You ***can*** use a calculator.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

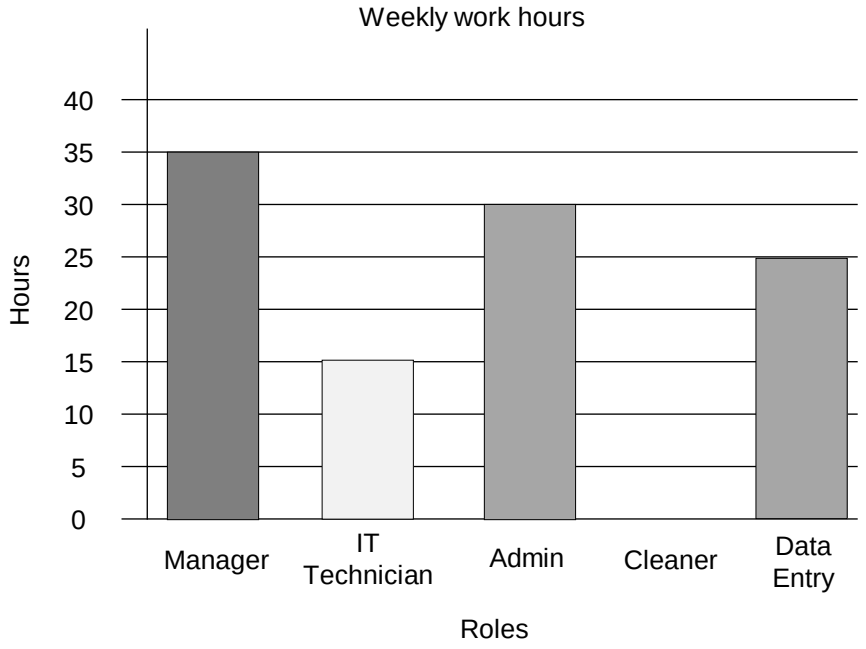
Information

- The marks for questions are shown in brackets.
- You may ask for graph paper, tracing paper and more answer paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

1 In an office, the total number of weekly hours worked is 135.



1(a) Complete the bar chart by entering the number of hours worked by the cleaner.

[3 mark]

Answer _____

1(b) Find the difference between the role with the most and least hours worked.

[1 mark]

Answer _____ hours

Turn over for next question

4

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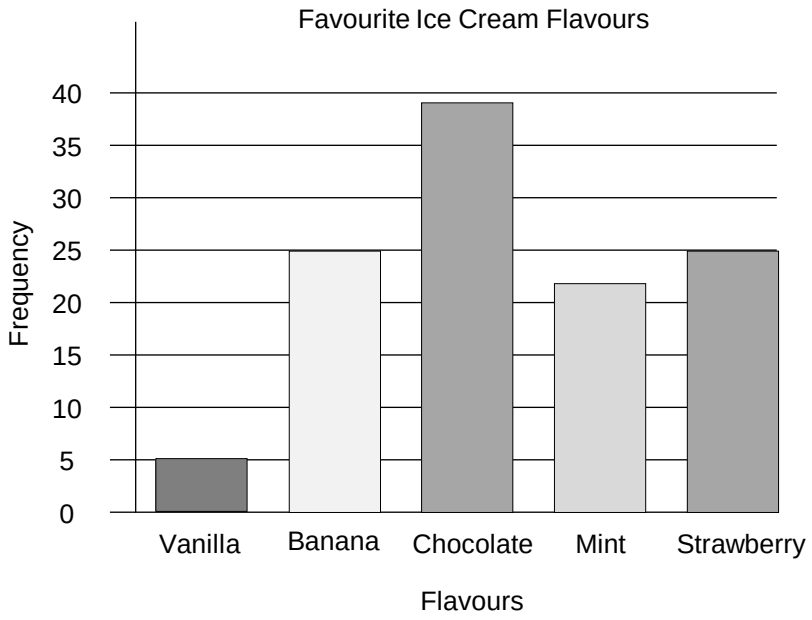
2 Consider the following table and graph.



Flavour	No.
Vanilla	5
Banana	25
Chocolate	39
Mint	25
Strawberry	22

Someone made a mistake copying the information from the graph into the table.

Identify the error/erros in the data.

[2 marks]

Answer _____

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3 A maths class took a survey of the other classes in the same year to find out how many children are in each family.

They created the following table.

Children in the family	No.
1	16
2	22
3	36
4	19
5	7

3(a) Draw a bar chart to represent this information on the axis below.

[3 mark]

3(b) What percentage of people surveyed had exactly 4 children in their family?

[2 mark]

Answer _____

Turn over for next question

5

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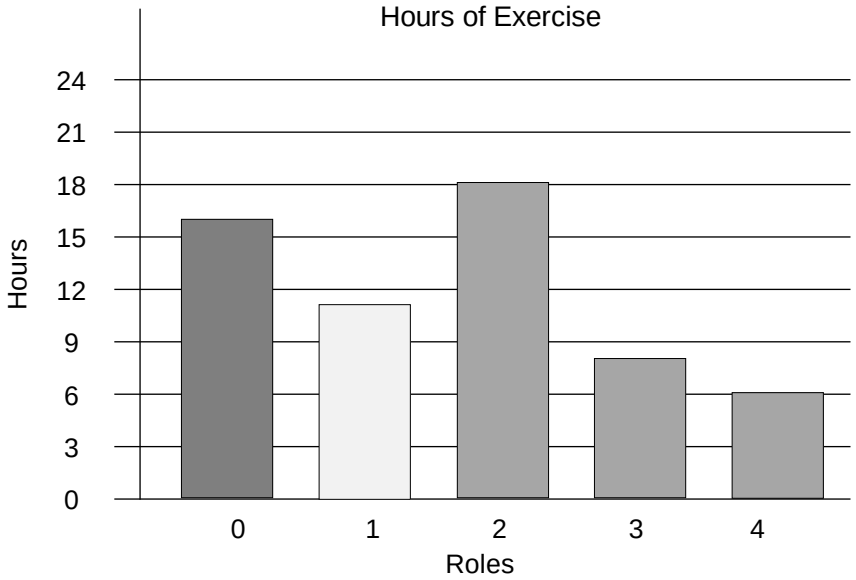
4 The following graph illustrates the number of hours teachers in a school exercise on a weekly basis.



What is the ratio between teachers who do not exercise at all to those who exercise exactly 3 hours a week.

Express the ratio in simplest form.

[2 marks]

Answer _____

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2

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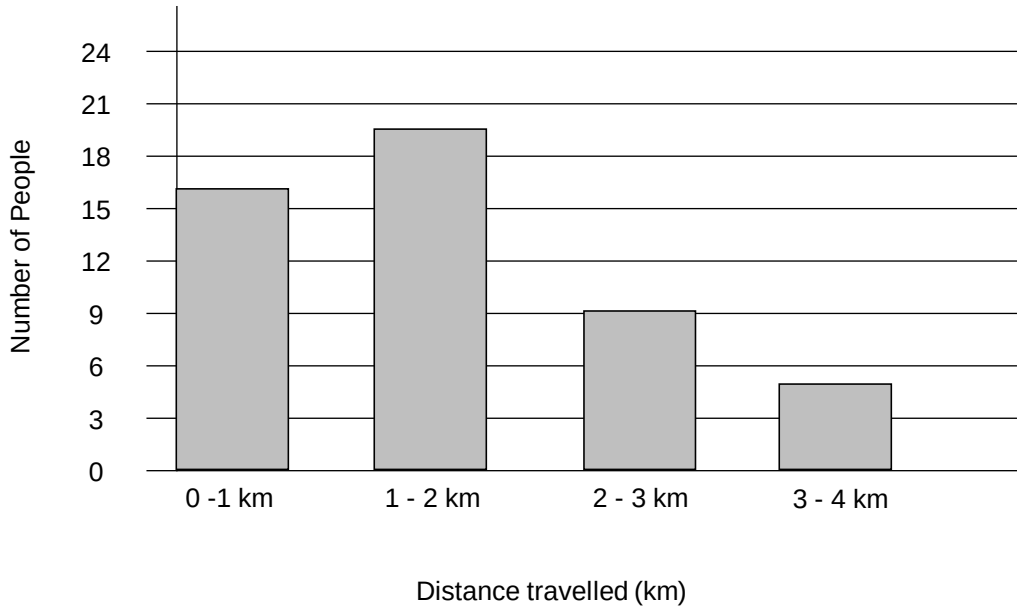
5 The following graph displays information gathered from a survey in the city centre.



5(a) Decide on a suitable title for the graph.

[1 mark]

Answer _____

5(b) Complete the table below which represents the data presented in the graph

[3 mark]

Distance travelled (km)	**Number or people**
< 1 km	
	19
≤ 3 km and < 4 km	

4

Turn over ►

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6 A survey was taken of 400 students intending to complete 2 or more GCSE exams.

Students were asked in which industry they hoped to work, from the following list.

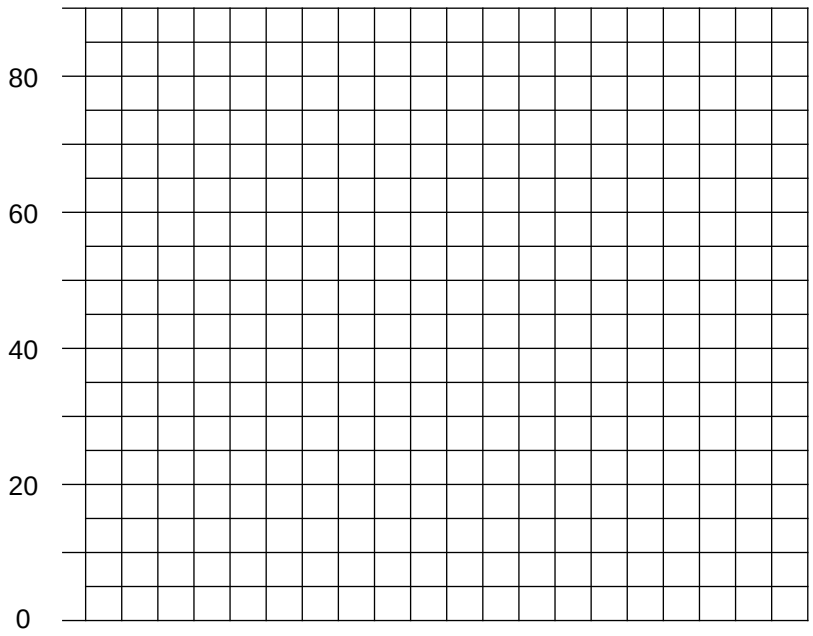
Industry sector	No.
Hospitality and Tourism	72
Construction	49
Transport	57
Health Services	85
Information Technology	90
None of the above	

6(a) Complete the table above.

[1 mark]

6(b) Draw a bar chart to represent this information on the axis below.

[4 mark]



Question continues on next page

5

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6(c) What percentage of the students wanted to work in either Hospitality and Tourism or Health Services?

Answer to 2 decimal places

[3 mark]

Answer _____

6(d) What is the ratio between students who want to work in Transport or Construction and those who do not want to work in Hospitality and Tourism?

[3 mark]

Answer _____

End of Questions

6

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