

## 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.

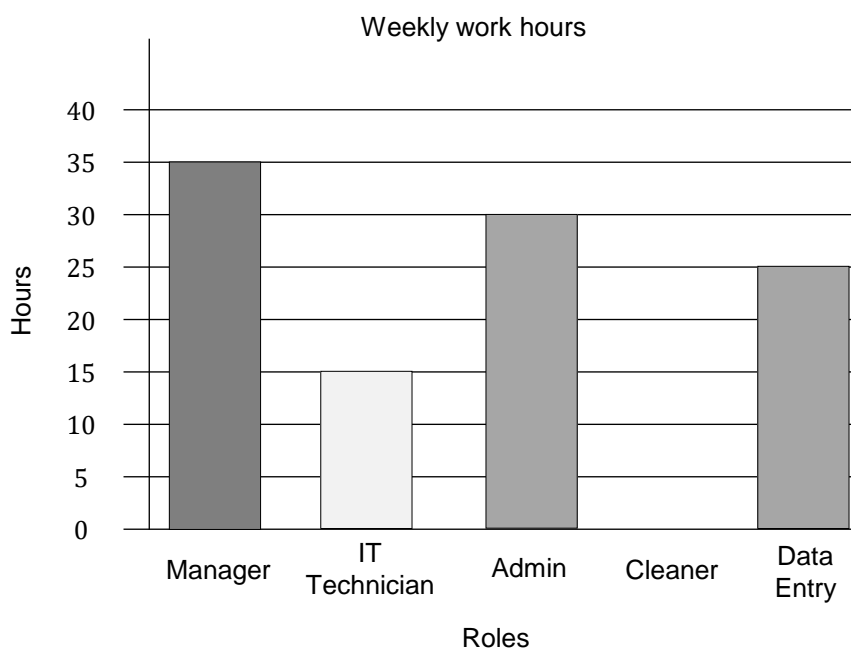
### Information

- 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 marks]

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Answer \_\_\_\_\_

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

[1 mark]

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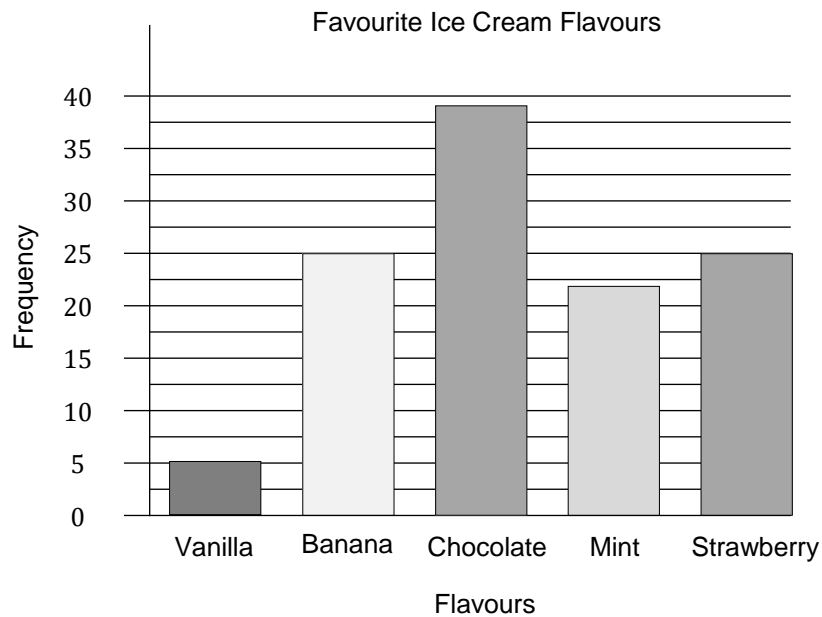
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Answer \_\_\_\_\_ hours

Turn over for next question

2 Consider the following table and graph.



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

Someone made mistakes copying the information from the graph into the table.

Identify the error(s) in the data.

**[2 marks]**

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Answer \_\_\_\_\_

**Turn over for next question**

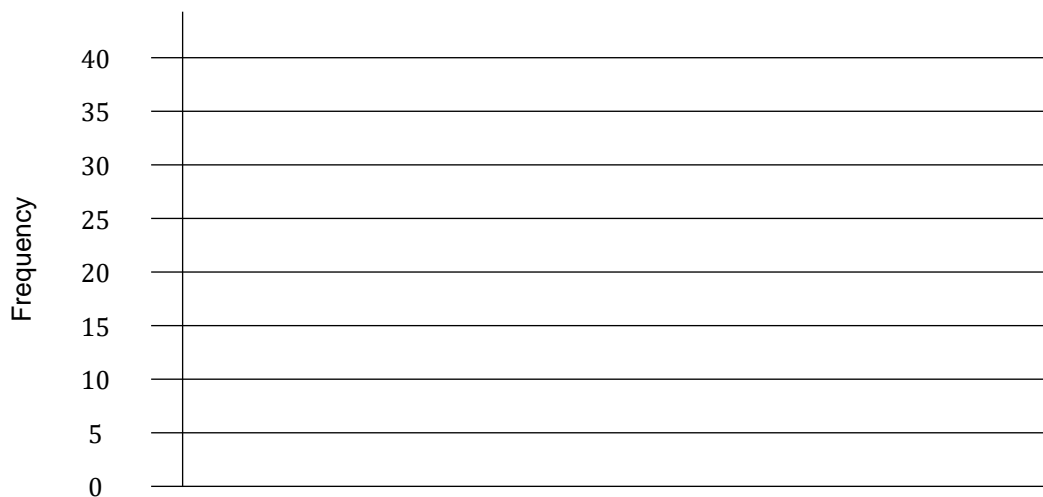
- 3** A maths class took a survey of the other classes in the same year to find out how many children are in each family.

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 marks]



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

[2 marks]

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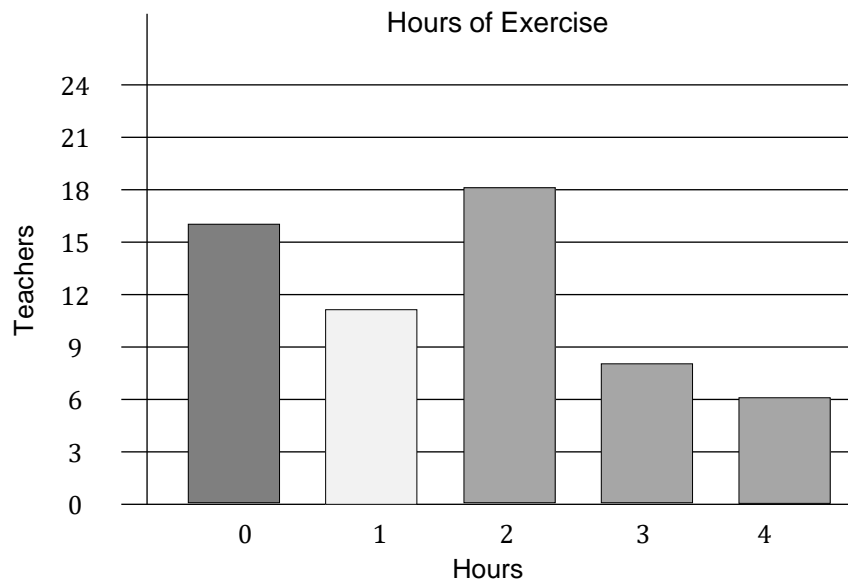
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Answer \_\_\_\_\_

**Turn over for next question**

Turn over ►

- 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]**

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Answer

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### GCSE Maths Revision Cards

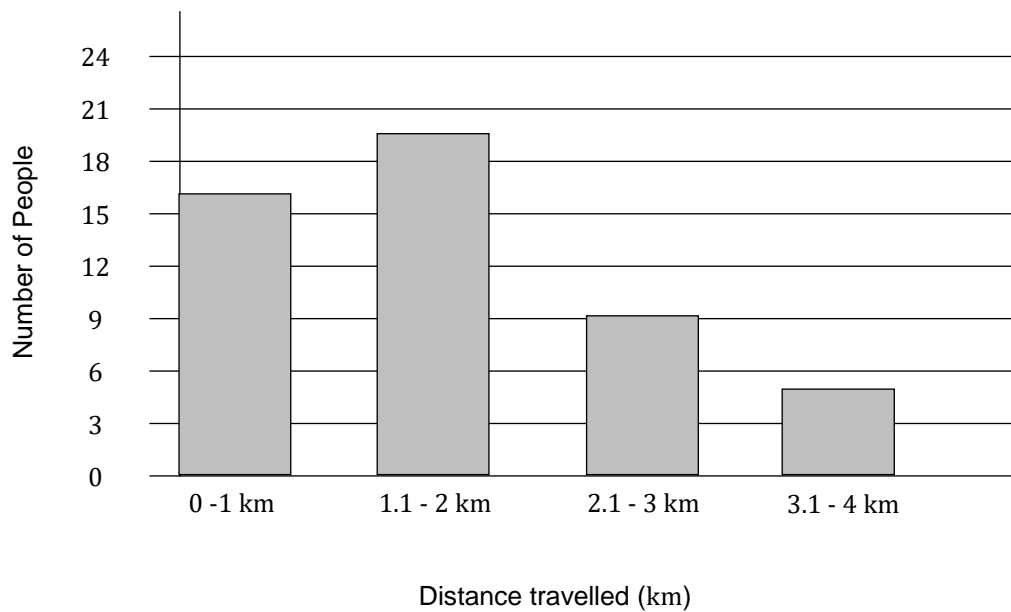
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Turn over ►

- 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]

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Answer \_\_\_\_\_

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

[3 marks]

| Distance travelled (km) | Number or people |
|-------------------------|------------------|
| 0 – 1 km                |                  |
|                         | 19               |
|                         |                  |
| 3.1 – 4 km              |                  |

Turn over for next question

Turn over ►

**6** A survey was taken by 400 students.

Students were asked which industry they hoped to work in. The data is shown below.

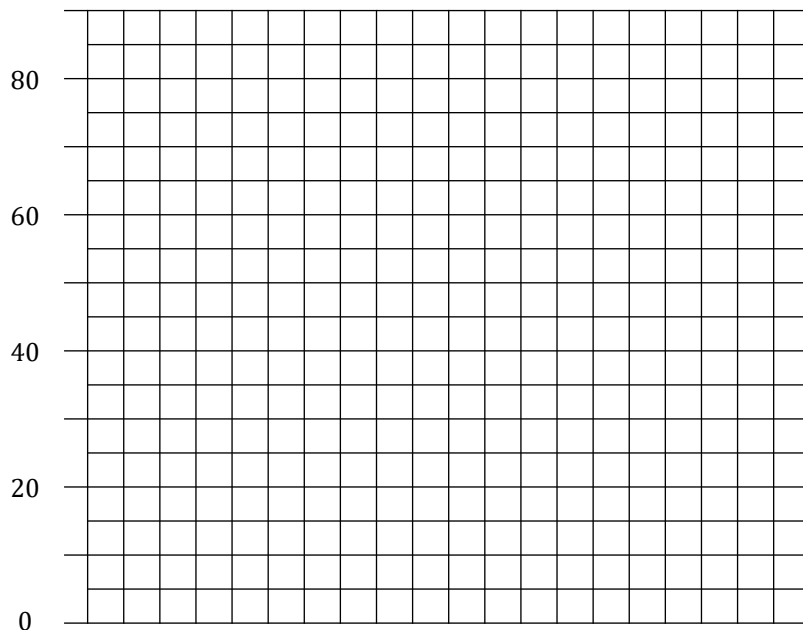
| Industry sector         | No. |
|-------------------------|-----|
| Hospitality and Tourism | 72  |
| Construction            | 49  |
| Transport               | 57  |
| Health Services         | 85  |
| Information Technology  | 90  |
| None of the above       |     |

**6(a)** Complete the table above.

[1 mark]

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

[4 marks]



Question continues on next page

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

Give your answer to 2 decimal places

[3 marks]

\_\_\_\_\_

\_\_\_\_\_

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 marks]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Answer \_\_\_\_\_



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