Name

Class



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Bar charts (9 – 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

•Use **black** ink or ball-point pen.

•Fill in the boxes at the top of this page with your name, centre number and candidate number.

- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.

•Diagrams are NOT accurately drawn, unless otherwise indicated.

•You must show all your working out.

•If the question is a **1F** question you are not allowed to use a calculator.

•If the question is a 2F or a 3F question, you may use a calculator to help you answer.

Information

•The marks for each question are shown in brackets

- use this as a guide as to how much time to spend on each question.

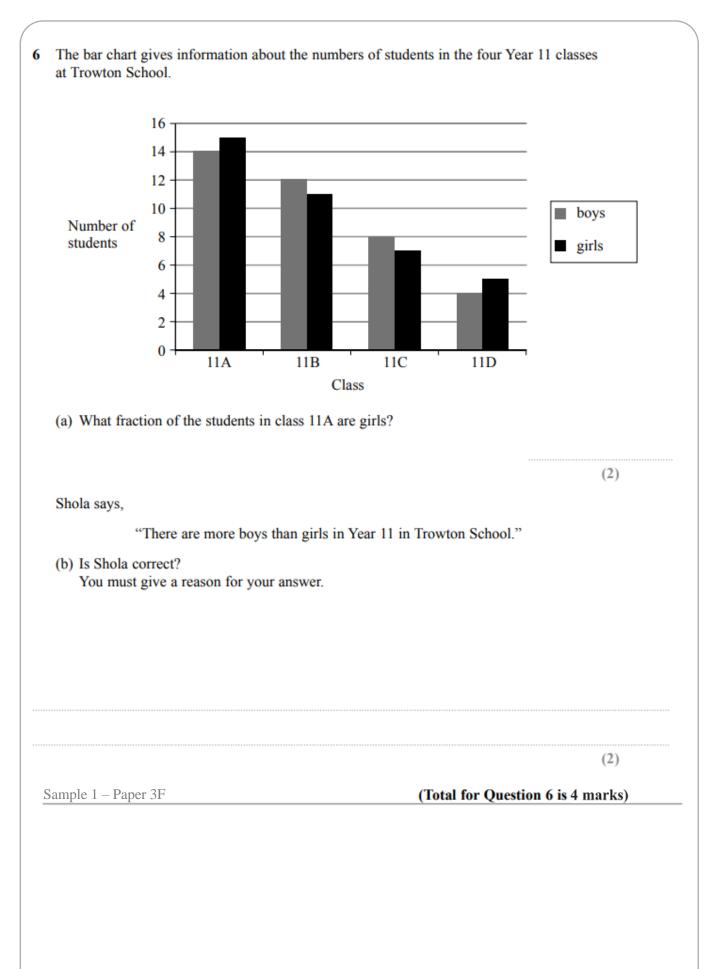
Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

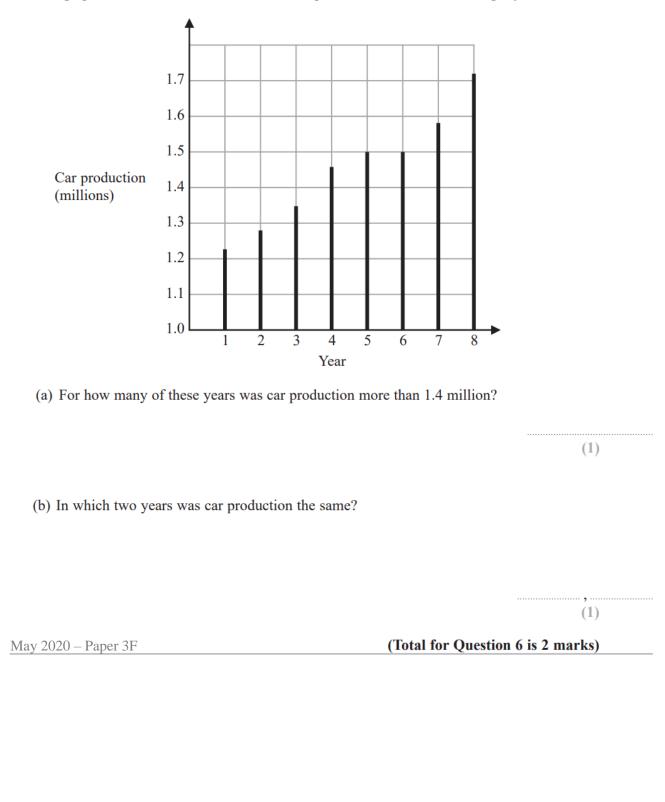
Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working. 3 A teacher asks the students in Year 6 what type of transport they use to get to school. The dual bar chart shows some of the results. 10 9 8 7 -6 Key: Frequency 5 boys 4 3 girls 2 1 0 Walk Car Bus Cycle Other (a) What is the most popular type of transport used by the boys? (1) 7 girls walk to school. (b) Show this information on the dual bar chart. (1) More of the students get to school by car than by bus. (c) How many more? (1) The number of students in Year 5 is the same as the number of students in Year 6 (d) What is the total number of students in Years 5 and 6? (2)

June 2017 – Paper 2F

(Total for Question 3 is 5 marks)



6 The graph shows some information about car production in the UK over eight years.



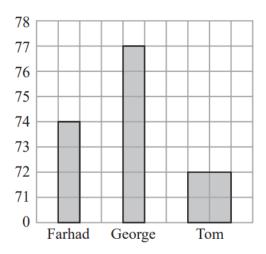
4

7 Farhad, George and Tom each did a test.

Here are their marks for the test.

Farhad	74
George	77
Tom	72

George drew this bar chart to show the marks they got. The bar chart is **not** fully correct.

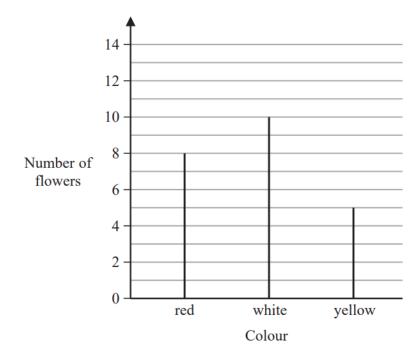


Write down **two** things that are wrong with George's bar chart.

1

7 In Adam's garden, the flowers are only red or white or yellow or blue.

The chart shows the number of red flowers, the number of white flowers and the number of yellow flowers.



The total number of flowers is 30

(a) Work out the number of blue flowers.

(2)

(b) Write down the mode.

(1)

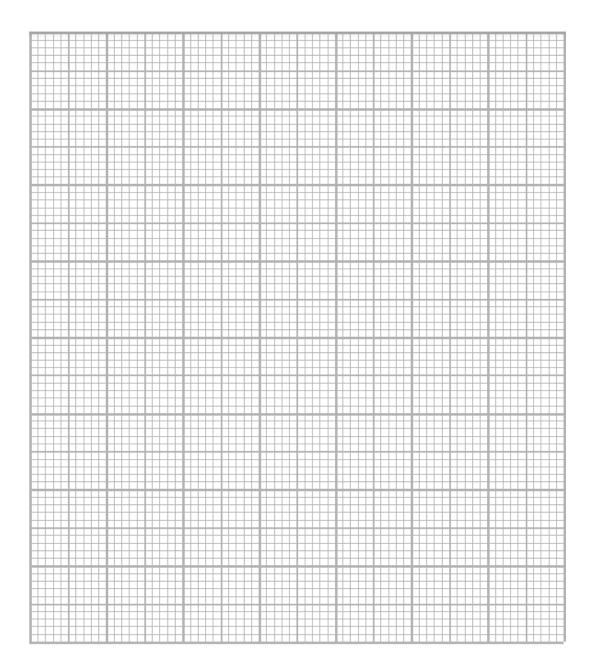
June 2019 - Paper 1F

(Total for Question 7 is 3 marks)

7 The table shows information about the sports some students like best.

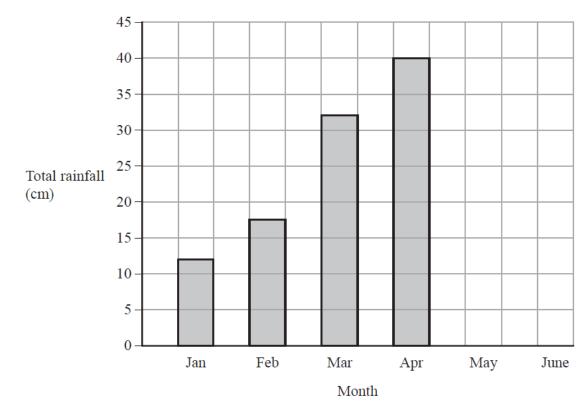
	Hockey	Tennis	Football	Golf
Boys	3	8	15	9
Girls	6	14	7	1

Draw a suitable diagram or chart for this information.



Specimen 1 – Paper 1F

8 The bar chart shows information about the total rainfall each month for four months in a city.



In May, the total rainfall was 35 cm. In June, the total rainfall was 20 cm.

(a) Use this information to complete the bar chart.

(2)

Rupa says,

"In February there was 15.5 cm of rainfall because the bar is half a square above 15"

(b) Explain why Rupa is incorrect.

(1)

June 2022 - Paper 1F

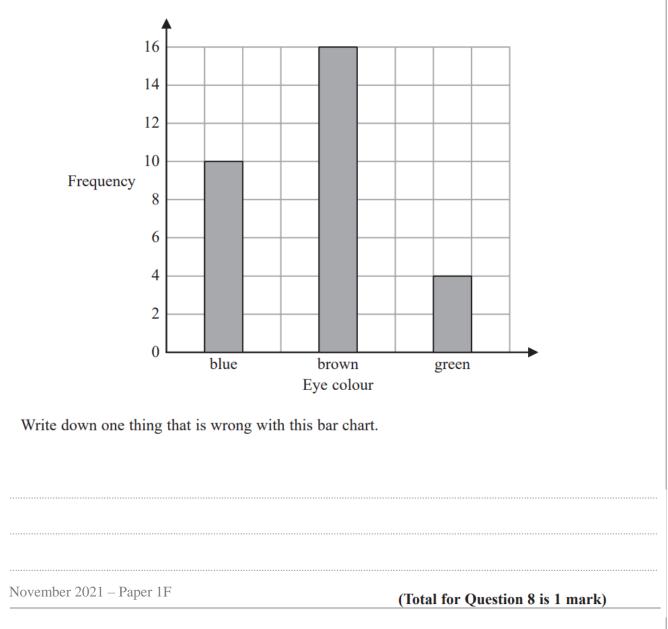
(Total for Question 8 is 3 marks)

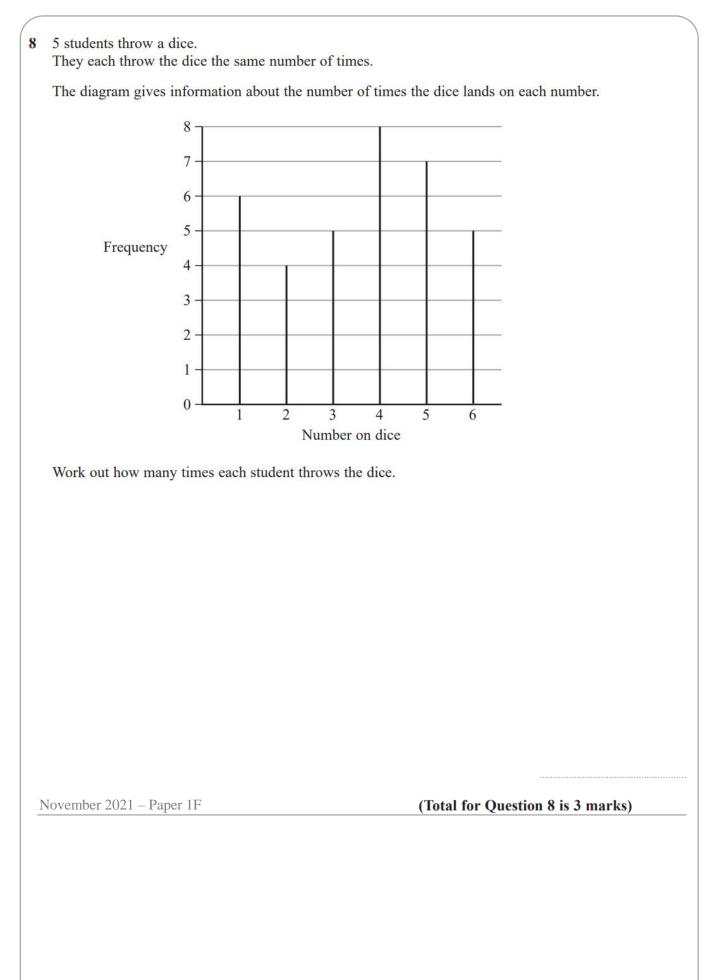
8 Grace recorded the eye colour of each of the students in her class.

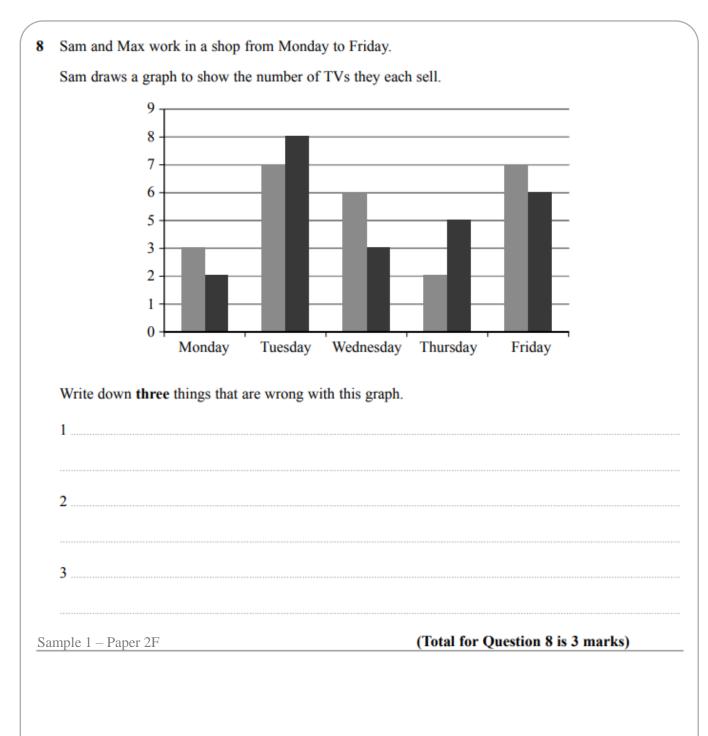
The frequency table below shows her results.

Eye colour	Frequency
blue	10
brown	15
green	4

Grace then drew the bar chart below for this information.







9 The table shows information about the number of students who arrived late at school each day one week.

	Number of students
Monday	9
Tuesday	10
Wednesday	8
Thursday	6
Friday	3

On the grid, draw a bar chart for this information.

November 2022 – 2F

(Total for Question 9 is 3 marks)

9 Mrs Brown asked each child in her class which pet they liked best.

Here are her results.

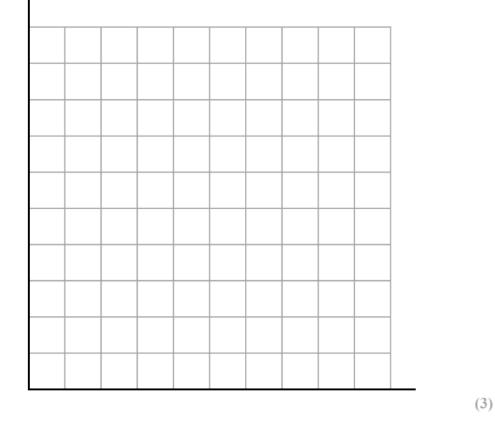
dog	rabbit	cat	dog	dog	hamster
cat	dog	rabbit	hamster	cat	cat
dog	dog	cat	dog	rabbit	dog

(a) Complete the frequency table for this information.

Pet	Tally	Frequency
dog		
rabbit		
cat		
hamster		

(2)

(b) On the grid below, draw a bar chart for this information.



(c) Write down the most popular pet.

November 2019 – Paper 3F

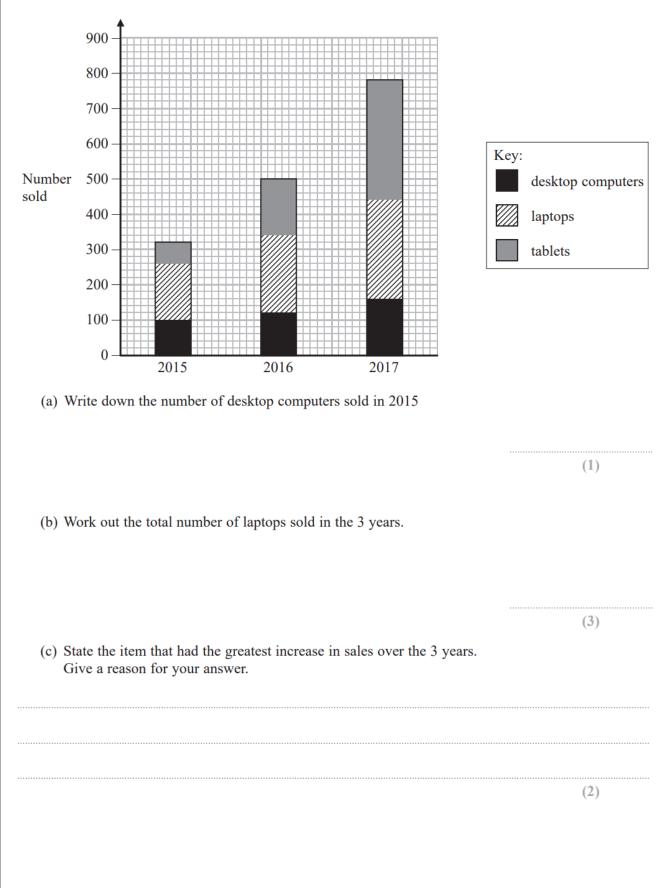
(1)

(Total for Question 9 is 6 marks)

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12 A shop sells desktop computers, laptops and tablets.

The composite bar chart shows information about sales over the last three years.



Alex says,

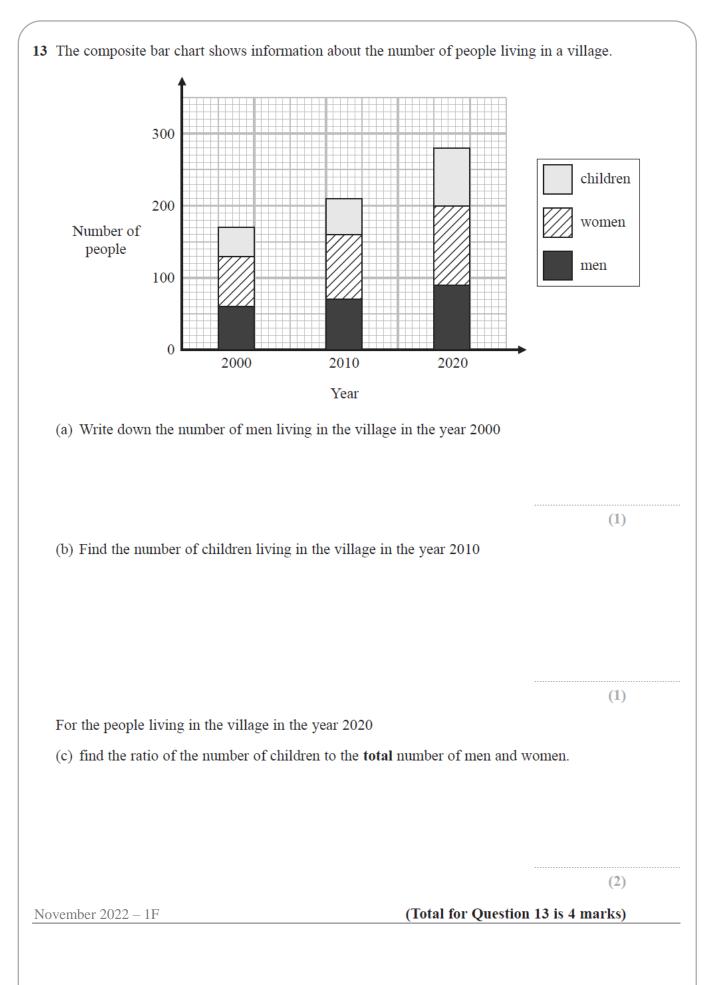
"In 2017, more tablets were sold than desktop computers. This means the shop makes more profit from the sale of tablets than from the sale of desktop computers."

(d) Is Alex correct? You must justify your answer.

(1)

May 2018 - Paper 1F

(Total for Question 12 is 7 marks)



14 Some people were asked if they liked swimming or cycling or running.

The table shows the results for the males and the results for the females.

	Swimming	Cycling	Running
Male	2	6	4
Female	8	5	5

(a) On the grid, draw a bar chart to show this information.

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(4)

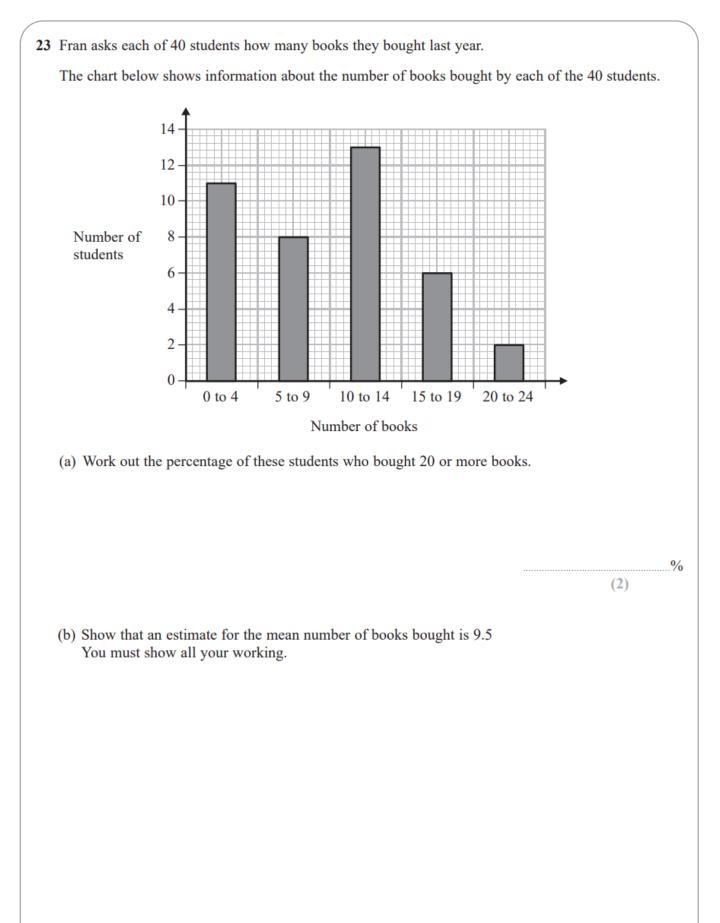
(2)

(b) Work out the percentage of the 30 people that are female.

%

Specimen 2 – Paper 1F

(Total for Question 14 is 6 marks)



(4)

November 2018 – Paper 3F

(Total for Question 23 is 6 marks)