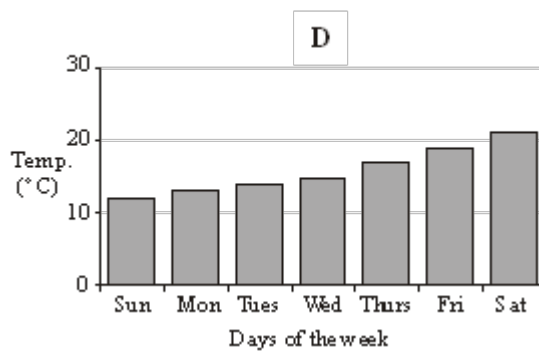
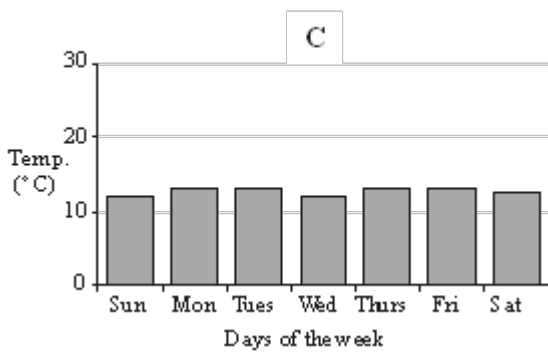
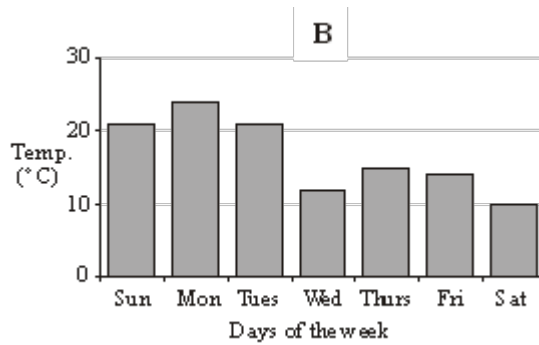
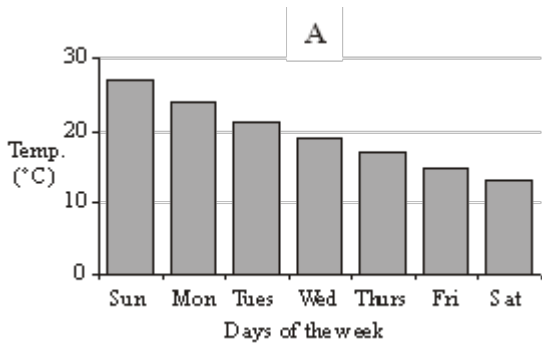


Q1. Here are four bar charts showing information about the temperatures at midday in four different cities last week.



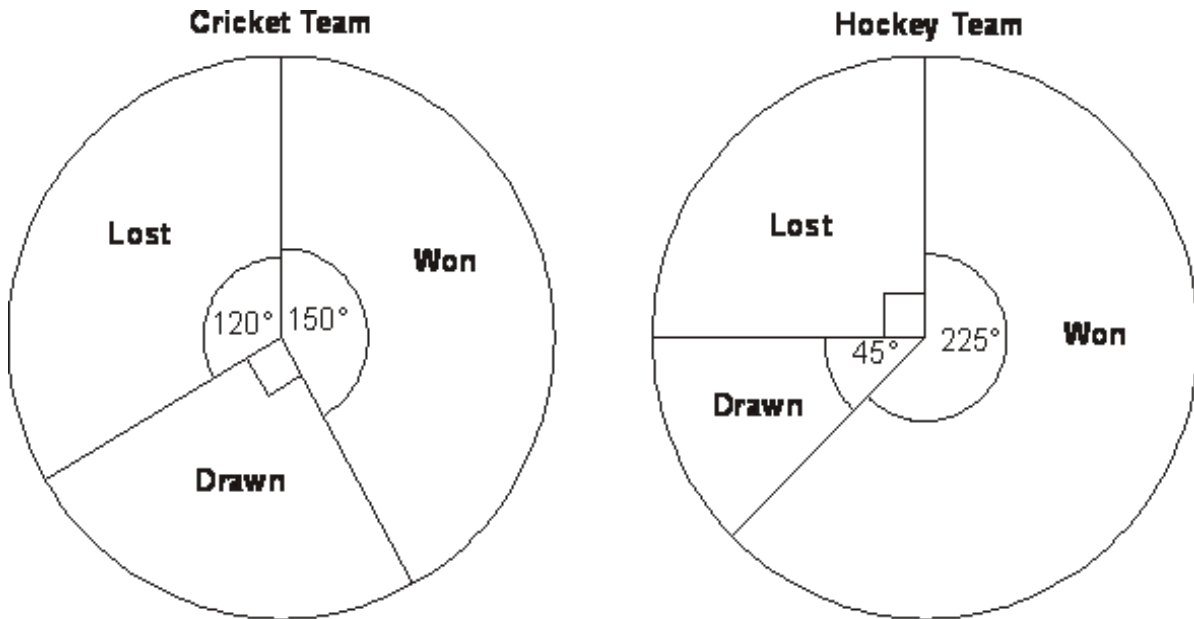
Put a cross in the box underneath the letter of the bar chart which best matches the sentences.

One has already been done for you.

	A	B	C	D
(i) Each temperature at midday was higher than the day before.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(ii) Each temperature at midday was about the same.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(iii) Each temperature at midday was lower than the day before.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(Total 2 marks)

Q2. The pie charts show some information about the numbers of matches won, drawn and lost by a cricket team and by a hockey team last year.



The cricket team won 15 matches.

(a) How many matches did the cricket team lose?

.....

(2)

(b) Which team won the most matches last year?
Tick (✓) **one** box to show your answer.

Cricket

Hockey

Not enough information

Explain your answer.

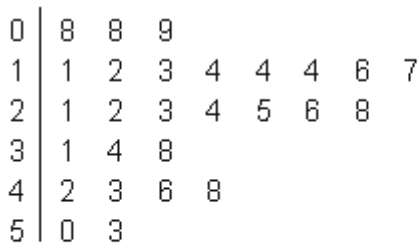
.....

.....

.....

(1)
 (Total 3 marks)

Q3. The stem and leaf diagram shows information about the ages, in years, of the people on a fairground ride.



Key: 4|2 means 42 years

(a) How many people were on the fairground ride?

.....

(1)

(b) Work out the median age.

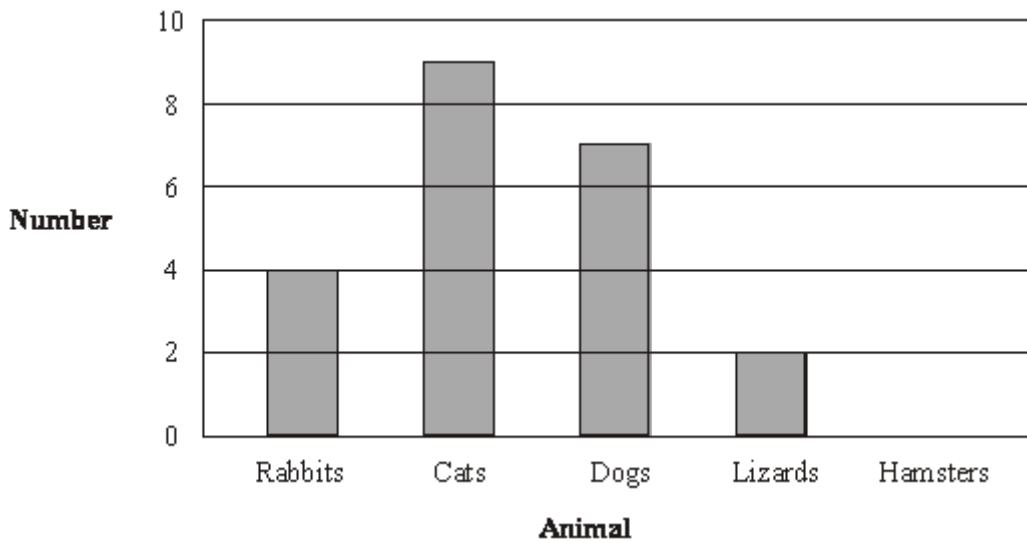
.....

(1)

(c) Work out the range of the ages.

.....
 (2)
 (Total 4 marks)

Q4. This bar chart gives information about the numbers of rabbits, cats, dogs and lizards taken to a vet on Monday.



(a) Write down the number of rabbits taken to the vet on Monday.

.....

(1)

(b) Write down the number of dogs taken to the vet on Monday.

.....

(1)

5 hamsters were also taken to the vet on Monday.

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

(1)

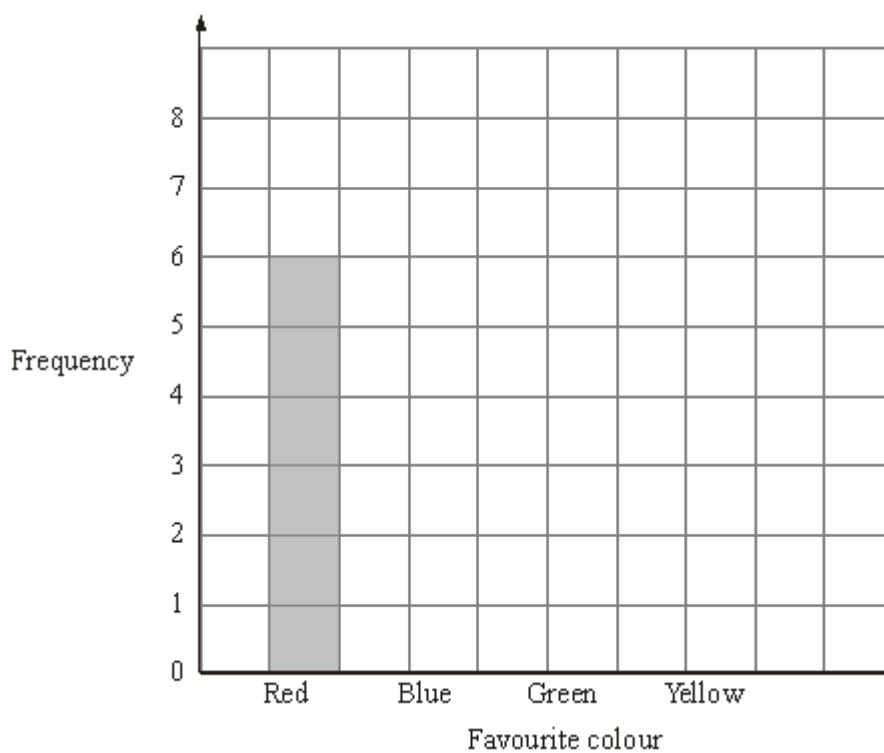
(Total 3 marks)

Q5. Steve asked his friends to tell him their favourite colour.

Here are his results.

Favourite colour	Tally	Frequency
Red		6
Blue		8
Green		5
Yellow		3

(a) Complete the bar chart to show his results.



(2)

(b) Which colour did most of his friends say?

.....

(1)
(Total 3 marks)

Q6. The table shows the distances in kilometres between 5 cities.

Hull				
100	Leeds			
162	73	Manchester		
110	60	65	Sheffield	
63	40	118	95	York

(a) Write down the distance between Hull and Manchester.

..... km

(1)

(b) From the table, write down the name of the city which is

(i) nearest to Hull,

.....

(ii) 60 km from Sheffield.

.....

(2)
(Total 3 marks)

Q7. Here is part of a train timetable from Peterborough to London.

Station	Time of leaving
Peterborough	08 44
Huntingdon	09 01
St Neots	09 08
Sandy	09 15
Biggleswade	09 19
Arlesey	09 24

(a) Which station should the train leave at 09 01?

.....

(1)

The train arrives in Sandy at 09 12

(b) How many minutes should the train wait in Sandy?

..... minutes

(1)

The train should take 41 minutes to travel from Arlesey to London.

(c) What time should the train arrive in London?

.....

(1)
(Total 3 marks)

M1.

	Answer	Mark	Additional Guidance
(i)	C	2	B1 for each correct answer
(ii)	A		
Total for Question: 2 marks			

M2.

	Working	Answer	Mark	Additional Guidance
(a)	15 matches = 150° 1 match = 10° $120 \div 10 = 12$	12	2	M1 for $150 \div 15 (=10)$ or $120 \div 10$ [Note: 10 seen on the answer line with no working gets no marks] A1 cao
(b)		Not enough information ticked and reason given	1	B1 for "Not enough information" ticked (or not and not contradicted) and correct explanation eg Explains that we don't know actual number of matches hockey team won. OR explains we don't know number of matches. OR explains that pie charts only show the proportions (eg. "cannot compare sizes of angles only") [B0 for any contradictory responses]
Total for Question: 3 marks				

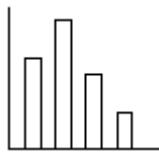
M3.

	Working	Answer	Mark	Additional Guidance
(a)		27	1	B1 cao
(b)	$(27 + 1)/2 = 14$ so 14th is median value	23	1	B1 cao
(c)	$53 - 8$	45	2	M1 for $53 - 8$ A1 cao [SC: B1 for 8 to 53 or $8 - 53$ oe or 8 and 53 identified if M0 A0 awarded]
Total for Question: 4 marks				

M4.

	Answer	Mark	Additional Guidance
(a)	4	1	B1 cao
(b)	7	1	B1 cao
(c)	Bar at 5	1	B1 cao. Bars may be narrow, but cannot be so narrow as to be a "bar line".
Total for Question: 3 marks			

M5.

	Working	Answer	Mark	Additional Guidance
(a)		Bars drawn at heights 8, 5 and 3	2	B2 for 3 bars drawn correctly (B1 for one bar drawn correctly or for 3 bars with correct heights)
(b)		Blue	1	B1 ft for "blue" (ft from table or their bar chart)
Total for Question: 3 marks				

M6.

	Answer	Mark	Additional Guidance
(a)	162	1	B1 for 162 cao
(b)(i)	York	2	B1 for York cao
(ii)	Leeds		B1 for Leeds cao
Total for Question: 3 marks			

M7.

	Answer	Mark	Additional Guidance
(a)	Huntingdon	1	B1 cao
(b)	3	1	B1 cao

(c)	10 05	1	B1 cao
Total for Question: 3 marks			

- E1.** This question was done well by many candidates. Most were able to identify bar chart C for statement (ii), but a common incorrect answer for statement (iii) was B.

##

A correct answer of 12 was seen more than it was not in part (a), 10 being the most popular incorrect answer seen. It was rare to see any working shown and so candidates usually earned the full two marks or no marks at all.

In part (b), 'Hockey' was selected as the team that won the more matches, candidates simply comparing the size of the respective sectors.

##

Part (a) was generally correctly answered, careless rather than conceptual errors accounting for the greater number of mistakes.

Part (b) was poorly answered, clearly showing a lack of understanding of the ordering of information in a stem and leaf diagram. 3 and 22.5 were the most common errors here.

Only a half of the candidature was able to correctly find the range in part (c).

$50 - 8 = 42$ and $53 - 9 = 44$ were the usual errors together with $5 - 0 = 5$. Even when the readings of 53 and 8 were correctly achieved many didn't appreciate that they needed the difference and merely stated the two extremities.

- E4.** This was a well answered question with most candidates scoring full marks. Zero marks in any section were usually due to non-attempts.

- E5.** Both parts of this question were answered very well indeed. Few marks were lost in the completion of the bar chart in part (a) and where they were it was more often because of incorrect widths or placement of the bars rather than the heights of the bars. A small number of candidates either gave the answer '8' rather than 'blue' in part (b) or gave no answer at all.
- E6.** The level of success in this question was both surprising and disappointing with many candidates unable to interpret the mileage chart correctly. Less than one third of the candidates found the correct distance between Hull and Manchester in part (a). Many assumed that the figures in the third row of the table related to Manchester so that the most common incorrect answers were 110 and 45 (from $110 - 65$). Part (b)(i) was answered more successfully with just under half of the candidates identifying York as the city nearest to Hull. The most common incorrect answer was Leeds, which was next to Hull in the table. Most success was achieved in part (b)(ii) with almost three quarters of candidates giving the correct answer.
- E7.** Over 90% of the candidates got the first two parts correct but many struggled with part (c). The most common error was 0965. Also seen were numbers close to the correct answer, out by one or ten minutes.