

Bar Charts - Worksheet

Skill

Group A - Drawing bar charts

Represent the data in each table in a bar chart:

1) Students were asked what their favourite colour was:

Colours	Frequency
Red	5
Blue	8
Green	7
Yellow	1

2) Students were asked how many siblings they had:

Number of siblings	Frequency
0	4
1	6
2	6
3	5

3) A team recorded how many goals they scored in each match:

Number of goals	Frequency
0	6
1	7
2	3
3	1

4) A school recorded the number of students in each year group.

Year group	Frequency
7	40
8	60
9	80
10	70
11	50

5) A school recorded the number of students in each Y7 class.

Year group	Frequency
7A	28
7B	25
7C	26
7D	18
7E	30

6) A student surveyed the number of pets the pupils in their school had.

Pet	Frequency
Dog	16
Cat	20
Guinea Pig	30
Rabbit	23
Hamster	7

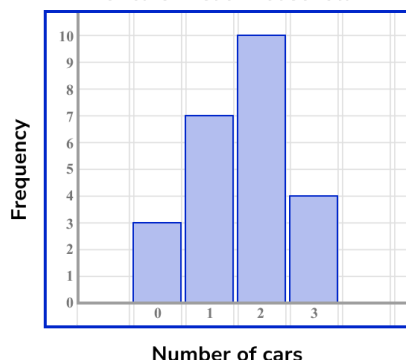
Bar Charts - Worksheet

Group B - Interpreting bar charts

Answer the questions about each bar chart:

1)

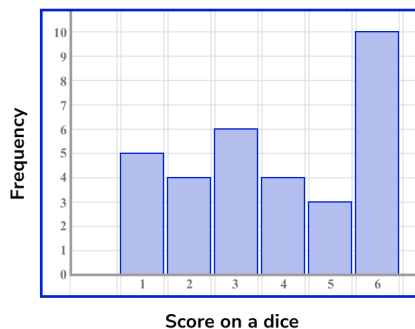
A bar chart to represent the number of cars in each household



- How many households have 3 cars?
- How many cars per household is the mode?
- What is the range of the numbers of cars per household?

2)

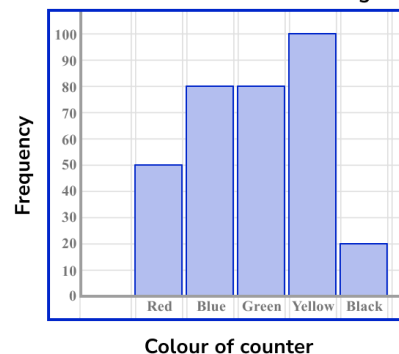
A bar chart to scores that a dice lands on



- Which number did the dice land on at least often?
- How many times was the dice rolled?
- Which score was the mode?
- Do you think this dice is biased? Explain your answer.

3)

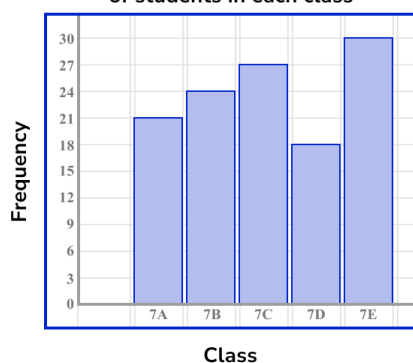
A bar chart to represent the number of coloured counters in a bag



- Which colours were there equal numbers of?
- Which colour was there the least of?
- How many counters were there altogether?

4)

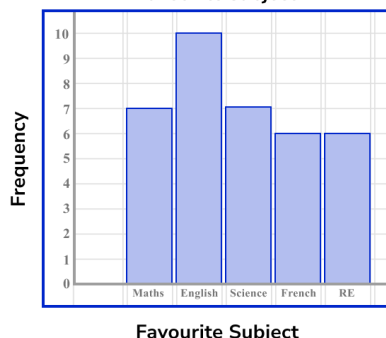
A bar chart to represent the number of students in each class



- Which class had the most students?
- How many students were in the smallest class?
- What is the range of the number of students?

5)

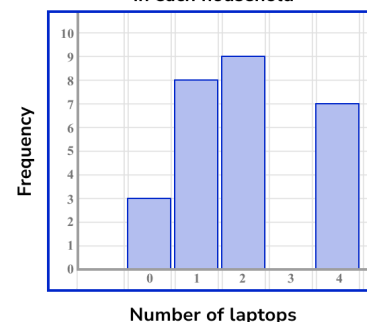
A bar chart to represent student's favourite subject



- Which subjects were equally popular?
- How many students chose maths or English as their favourite subject?
- How many more students chose English as their favourite subject than RE?

6)

A bar chart to represent the laptops in each household



- How many households had 3 laptops?
- What was the most number of laptops that a household had?
- How many fewer households had 0 laptops than houses with 1 laptop?

Bar Charts - Worksheet

Group C - Drawing comparative bar charts

Represent the data in each table in a comparative bar chart:

- 1)** Boys and girls were asked what their favourite colour is: **2)** Two classes were asked what their favourite subject is: **3)** Two classes were asked how they travel to school:

Colours	Boys	Girls
Red	4	5
Blue	9	3
Green	5	5
Yellow	3	8

Subject	8A	8B
Maths	12	16
English	10	8
PE	14	14
Art	6	8

Transport	8A	8B
Walk	16	14
Cycle	7	6
Car	13	10
Bus	2	4

- 4)** A cafe records sales on a day in winter and a day in summer: **5)** Two shops record the sales of books in a day: **6)** Boys and girls record their favourite flavours of crisps:

Item	Summer	Winter
Hot chocolate	2	18
Ice cream	19	5
Cake	11	14
Water	15	12
Crisps	8	9

Book	Book R Us	We Love Books
Guinness book of records	18	11
Dictionary	3	2
Animal Farm	8	5
Wuthering Heights	12	13

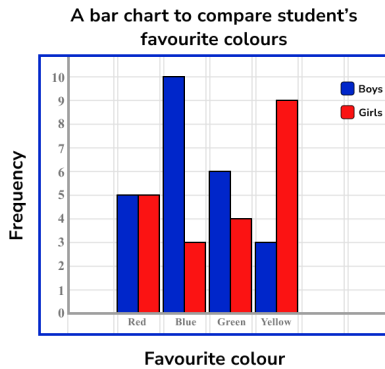
Flavour	Boys	Girls
Ready Salted	12	15
Salt and vinegar	27	9
Cheese and onion	15	15
Smoky bacon	9	24

Bar Charts - Worksheet

Group D - Interpreting comparative bar charts

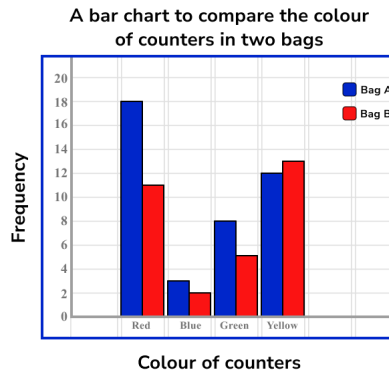
Answer the questions about each comparative bar chart:

1)



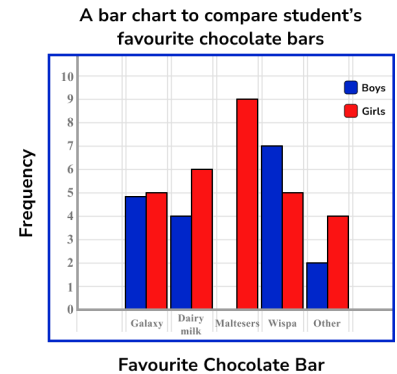
- Which colour is equally popular with boys and girls?
- How many more boys chose blue than girls?
- Which colour was more popular with girls than boys?

2)



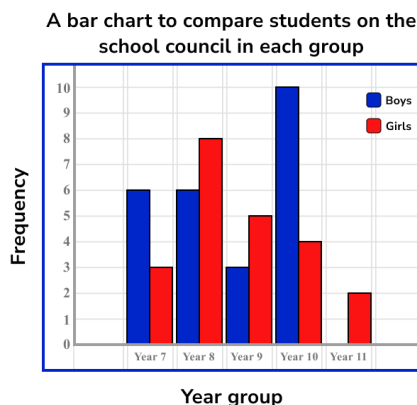
- Which colour has the lowest amount?
- Which colour was there more of in Bag B than in Bag A?
- How many counters were there in Bag A altogether?

3)



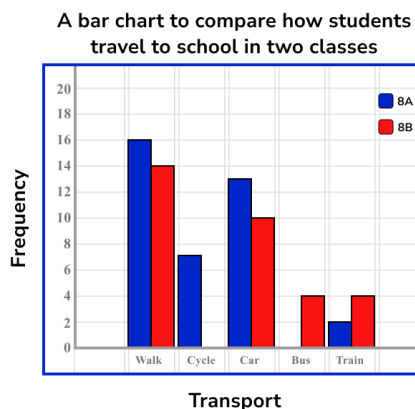
- How many boys chose Maltesers as their favourite chocolate?
- How many more girls chose Dairy Milk than boys?
- How many students chose Wispa as their favourite chocolate?

4)



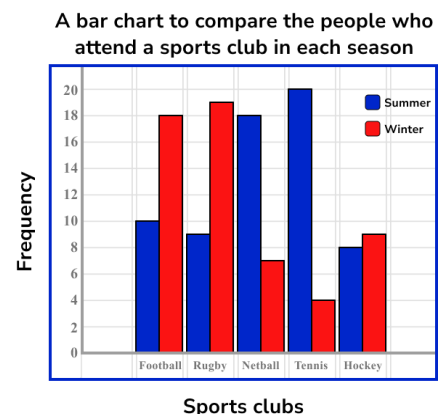
- Which year group has the most boys on the school council?
- How many more girls in the school council are there in Year 8 than boys in Year 8 on the council?
- How many students are on the council altogether?

5)



- Which type of transport did only class 8A use?
- Which type of transport did no students in class 8A use?
- How many more students are in class 8A than class 8B?

6)



- Which sports are more popular in summer than winter?
- How many more people attended rugby in the winter than the summer?
- How many more people attended football than hockey?

Bar Charts - Worksheet

Group E - Compound bar charts

Represent the data in each table in a compound bar chart:

1) Boys and girls were asked what their favourite colour is.

Colours	Boys	Girls
Blue	40%	50%
Red	50%	30%
Green	10%	20%

2) Two groups were asked which brand of chocolate they preferred.

Chocolate brand	Group A	Group B
Cadbury	30%	70%
Mars	50%	50%
Nestle	40%	60%
Terry's	25%	75%

3) Men and women were asked which supermarket they prefer to shop at.

Supermarket	Men	Women
Asda	70%	30%
Tesco	20%	80%
Sainsbury's	40%	60%
Waitrose	30%	70%

4) Students were asked what they received for Christmas in 2019 and 2020.

Gift	2019	2020
Games console	4	2
Clothes	5	8
Games	7	3
Books	7	8

5) Key stage 3 and Key stage 4 students were asked what their favourite subject is.

Subject	Key stage 3	Key stage 4
Maths	5	6
English	8	7
Science	6	10
Other	3	4

6) Students in each year group were asked if they preferred fiction or non-fiction books.

Year group	Non-fiction	Fiction
Year 7	8	12
Year 8	10	10
Year 9	11	9
Year 10	6	14
Year 11	18	2

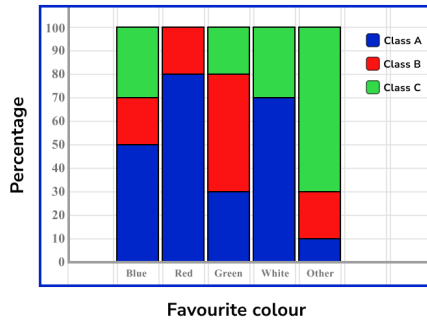
Bar Charts - Worksheet

Group F - Interpreting compound bar charts

Answer the questions about each chart:

1)

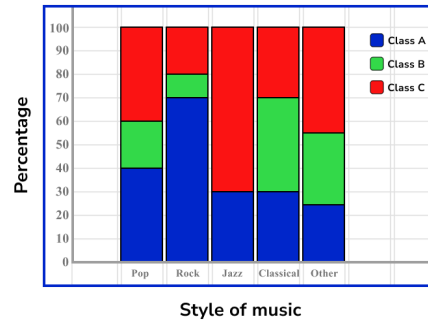
A chart to show percentage of student's favourite colour in each class



- What percentage of students that chose blue are in class A?
- How many students in class C chose red?
- What percentage of students that chose green are in class B?

2)

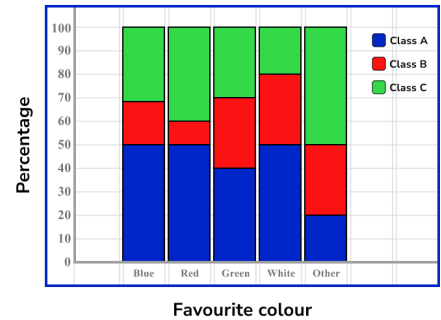
A compound bar chart to show percentage of people's favorite music style in each class



- What percentage of students chose classical in Class C?
- Which style of music was chosen by more students in Class A than the other two classes?
- Does this chart show that more students in Class A chose rock than jazz?

3)

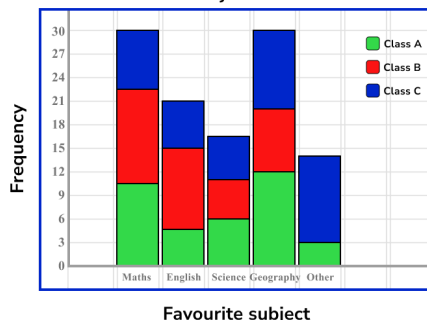
A chart to show percentage of student's favourite colour in each class



- What percentage of students that chose red are in class B?
- Which class has the highest percentage of students that chose 'other'?
- If Blue was chosen by 10 students, how many of those students were in class A?

4)

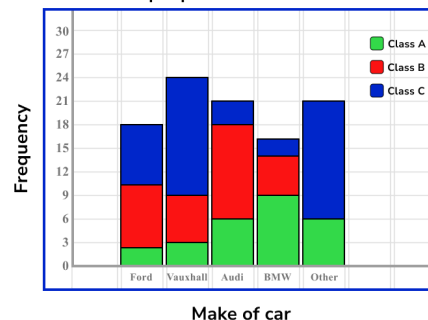
A compound bar chart to show student's favourite subject in each class



- How many students that chose English were in class C?
- Did more students in class A choose geography than science?
- Which two subjects were equally popular?

5)

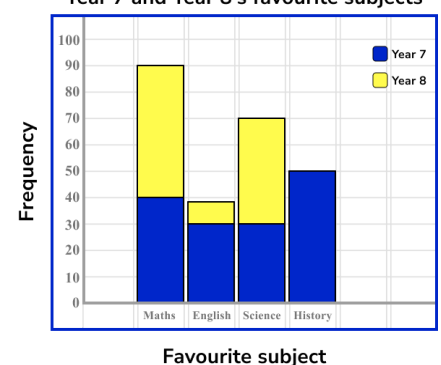
A compound bar chart to show the make of car people in each class own



- Which brand of car was the least common?
- Which brand of car was most common with students in class A?
- Did any students in class B choose 'other'?

6)

A compound bar chart to percentage Year 7 and Year 8's favourite subjects



- How many students in Year 8 chose English?
- Which subject was most popular with Y8?
- Which subject was most popular with year 7?

Bar Charts - Worksheet

Applied

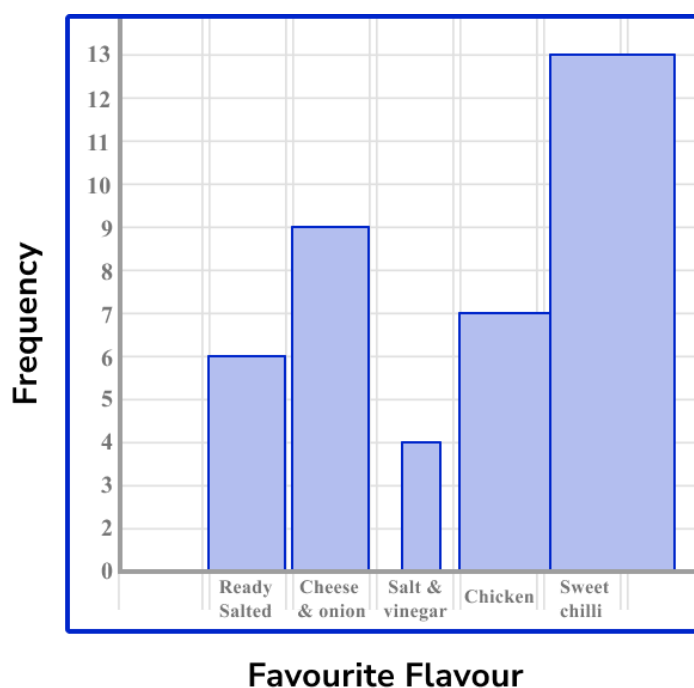
- 1) Boys and girls were asked what their favourite game was.

Favourite game	Boys	Girls
Monopoly	8	5
Cluedo	9	10
Scrabble	3	8
Snake and ladders	7	2

(a) Represent this information in a suitable chart.

(b) Explain why you chose that type of chart.

- 2) Here is a bar chart showing the favourite flavour of crisps from a sample of people.



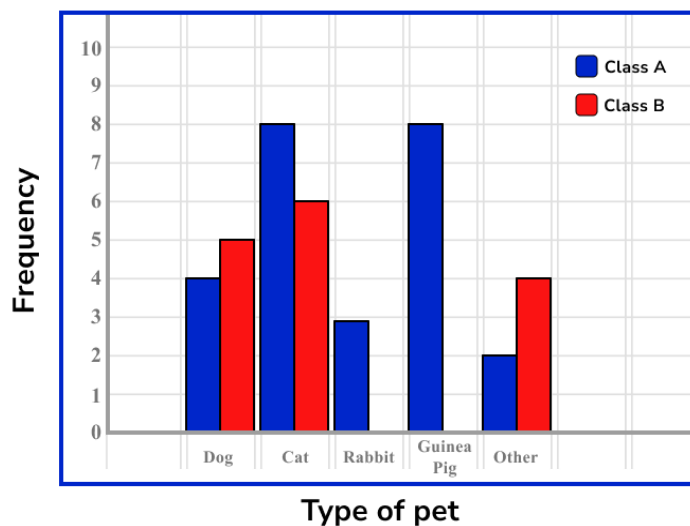
(a) Give two reasons why this is a misleading graph.

(b) Represent the data in an accurate bar chart.

Bar Charts - Worksheet

- 3) This chart represents the number of pets in two classes.

A bar chart to show the number of pets in two classes



Students in class B have 8 guinea pigs.

- (a) Complete the chart to represent this information.
- (b) How many pets do students in class A and class B have altogether?

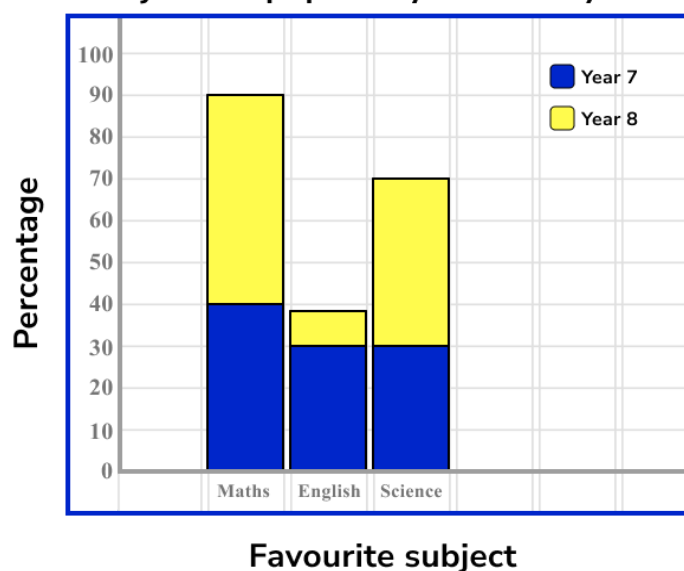
Bar Charts - Worksheet

- 4) Students in Year 7 and Year 8 were asked what their favourite subject was and this table shows the results.

Subject	Year 7	Year 8
Maths	40%	50%
English	30%	10%
Science	30%	40%

This data has been displayed in this chart.

A compound bar chart to show the favourite subjects of pupils in year 7 and year 8



- (a) An error has been made. Identify the error.

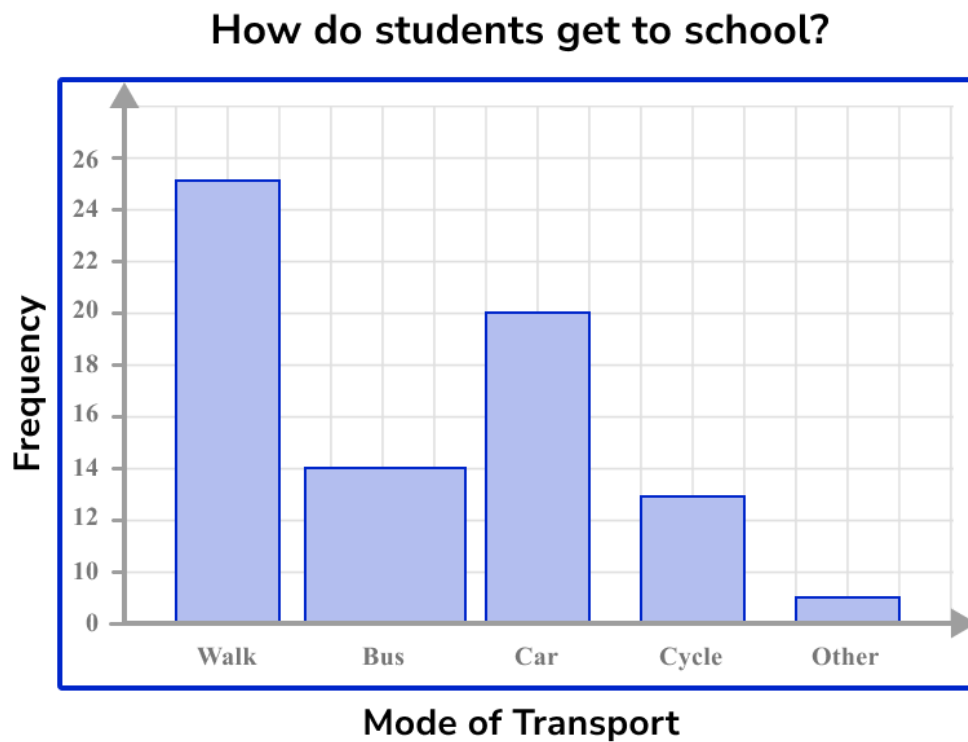
Sam says:

'More students preferred maths in Year 8 than Year 7 because the bar is higher'.

- (b) Explain why Sam might be wrong.

Bar Charts - Exam Questions

- 1) This bar chart shows how students get to school.



Give two reasons why this chart is not correct.

Reason 1

.....

Reason 2

.....

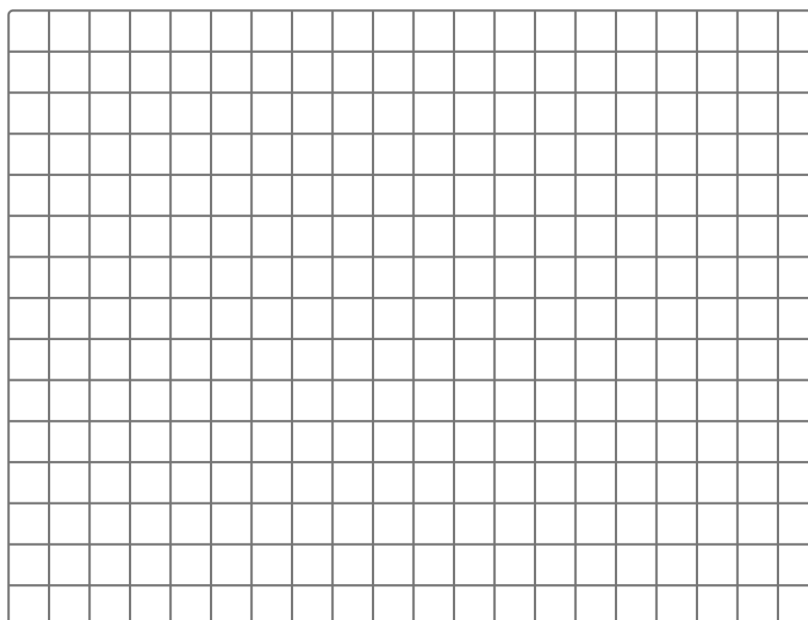
(2 marks)

Bar Charts - Exam Questions

- 2) Some people were asked if they liked football, netball or hockey. The table shows the results for the males and the results for the females.

	Football	Netball	Hockey
Male	8	3	5
Female	4	7	5

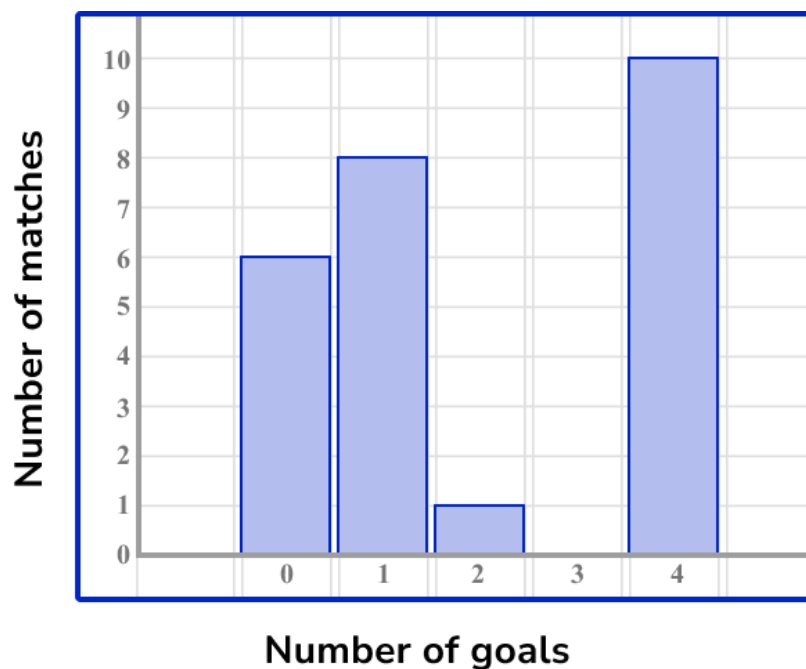
On the grid, draw a bar chart to show this information.



(4 marks)

Bar Charts - Exam Questions

- 3) This graph shows the number of goals scored by a hockey team.



- (a) Which number of goals is the mode?

.....
(1)

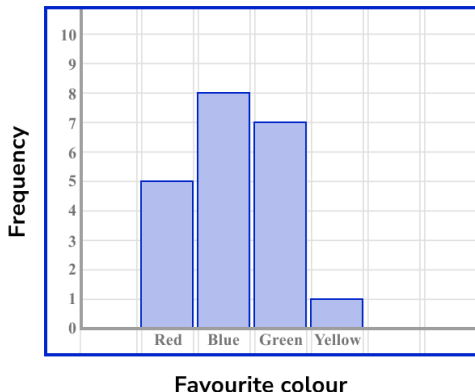
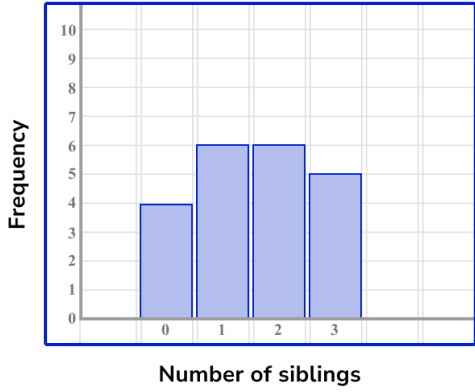
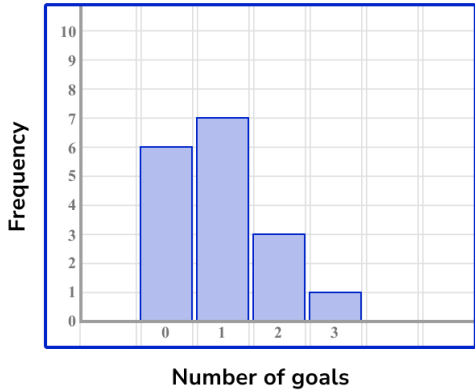
- (b) How many matches did the hockey team play altogether?

.....
(2)

- (c) What is the range of the number of goals they scored?

.....
(2)
(5 marks)

Bar Charts - Answers

	Question	Answer										
	Skill Questions											
Group A	Represent the data in each table in a bar chart:											
	1) Students were asked what their favourite colour was: <table border="1"><thead><tr><th>Colours</th><th>Frequency</th></tr></thead><tbody><tr><td>Red</td><td>5</td></tr><tr><td>Blue</td><td>8</td></tr><tr><td>Green</td><td>7</td></tr><tr><td>Yellow</td><td>1</td></tr></tbody></table>	Colours	Frequency	Red	5	Blue	8	Green	7	Yellow	1	1) A bar chart to represent student's favourite colour 
	Colours	Frequency										
Red	5											
Blue	8											
Green	7											
Yellow	1											
2) Students were asked how many siblings they had: <table border="1"><thead><tr><th>Number of siblings</th><th>Frequency</th></tr></thead><tbody><tr><td>0</td><td>4</td></tr><tr><td>1</td><td>6</td></tr><tr><td>2</td><td>6</td></tr><tr><td>3</td><td>5</td></tr></tbody></table>	Number of siblings	Frequency	0	4	1	6	2	6	3	5	2) A bar chart to represent the number of siblings that students have 	
Number of siblings	Frequency											
0	4											
1	6											
2	6											
3	5											
3) A team recorded how many goals they scored in each match: <table border="1"><thead><tr><th>Number of goals</th><th>Frequency</th></tr></thead><tbody><tr><td>0</td><td>6</td></tr><tr><td>1</td><td>7</td></tr><tr><td>2</td><td>3</td></tr><tr><td>3</td><td>1</td></tr></tbody></table>	Number of goals	Frequency	0	6	1	7	2	3	3	1	3) A bar chart to represent the number of goals a team scored in each match 	
Number of goals	Frequency											
0	6											
1	7											
2	3											
3	1											

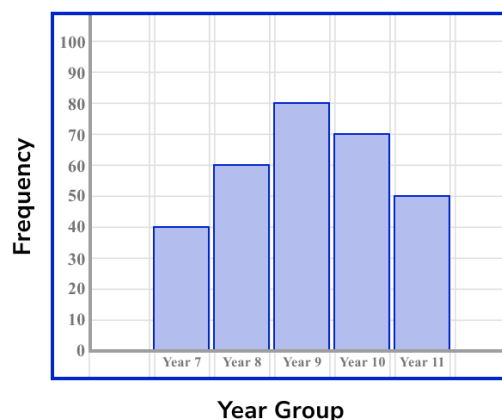
Bar Charts - Answers

Group A
contd

- 4) A school recorded the number of students in each year group.

Year group	Frequency
7	40
8	60
9	80
10	70
11	50

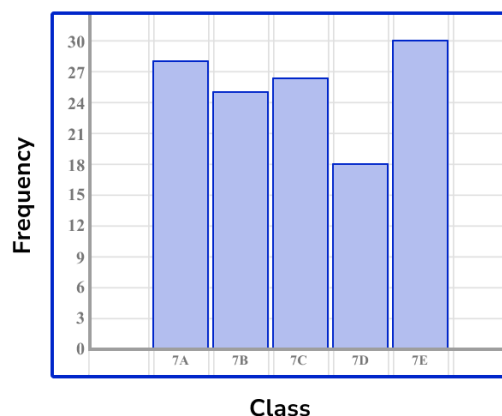
- 4) A bar chart to represent the number of students in each group



- 5) A school recorded the number of students in each Y7 class.

Year group	Frequency
7A	28
7B	25
7C	26
7D	18
7E	30

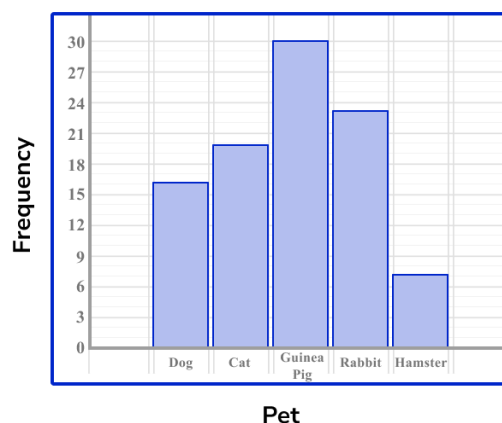
- 5) A bar chart to represent the number of students in each class



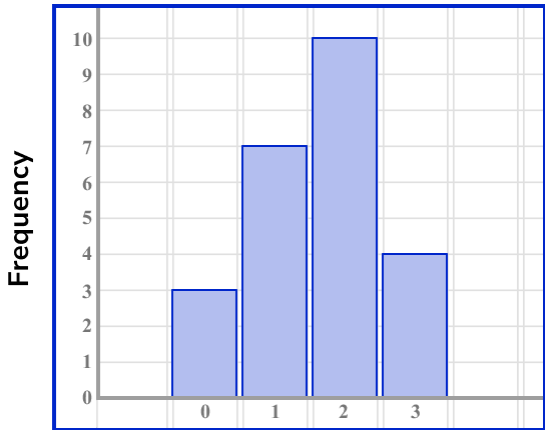
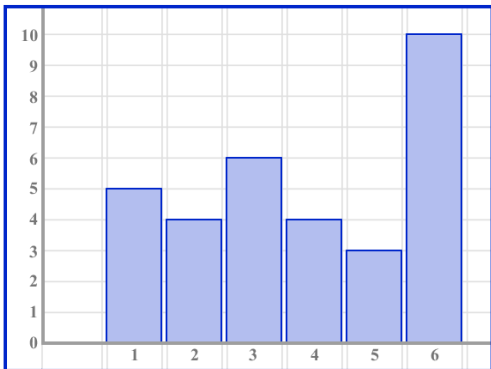
- 6) A student surveyed the number of pets the pupils in their school had.

Pet	Frequency
Dog	16
Cat	20
Guinea Pig	30
Rabbit	23
Hamster	7

- 6) A bar chart to represent which pets people had



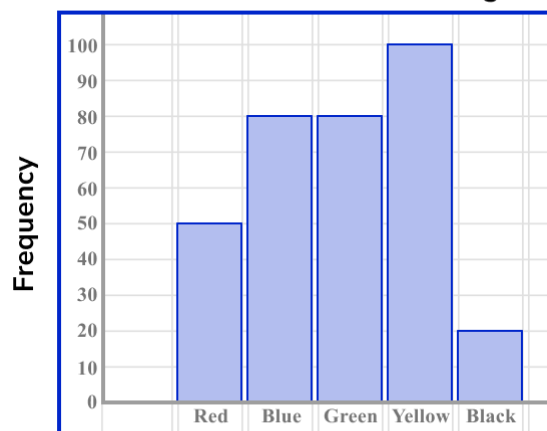
Bar Charts - Answers

Group B	Answer the questions about each bar chart: 1) A bar chart to represent the number of cars in each household  Number of cars a. How many households have 3 cars? b. How many cars per household is the mode? c. What is the range of the numbers of cars per household? 2) A bar chart to scores that a dice lands on  Score on a dice a. Which number did the dice land on at least often? b. How many times was the dice rolled? c. Which score was the mode? d. Do you think this dice is biased? Explain your answer.	1) a. 4 b. 2 c. $3 - 0 = 3$ 2) a. 5 b. $5 + 4 + 6 + 4 + 3 + 10 = 32$ c. 6 Yes because it landed on '6' significantly more times than any other number.
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Bar Charts - Answers

Group B
contd

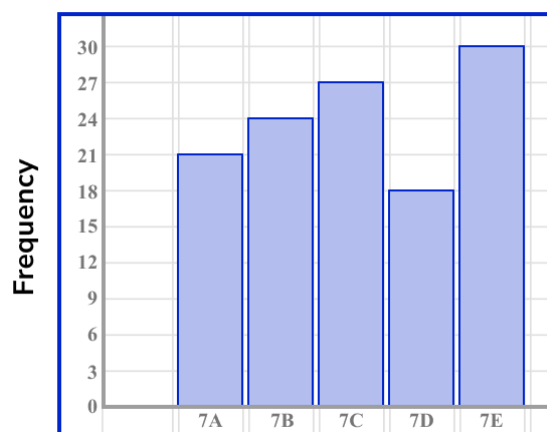
3) A bar chart to represent the number of coloured counters in a bag



Colour of counter

- Which colours were there equal numbers of?
- Which colour was there the least of?
- How many counters were there altogether?

4) A bar chart to represent the number of students in each class



Class

- Which class had the most students?
- How many students were in the smallest class?
- What is the range of the number of students?

3)

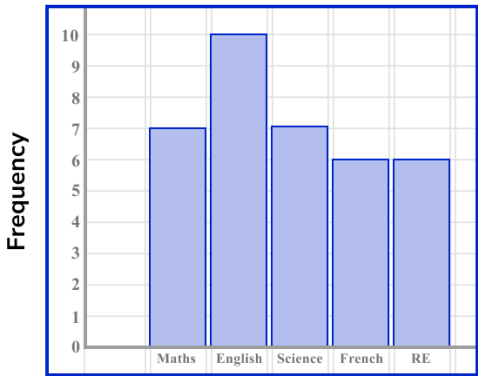
- Blue and green
- Black
- $50 + 80 + 80 + 100 + 20 = 330$

4)

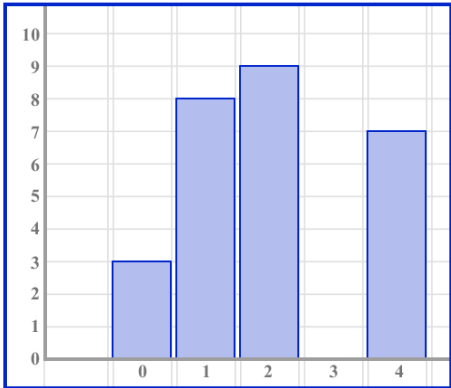
- 7E
- 18
- $30 - 18 = 12$

Bar Charts - Answers

Group B
contd

- 5)** A bar chart to represent student's favourite subject
- 
- | Favourite Subject | Frequency |
|-------------------|-----------|
| Maths | 7 |
| English | 10 |
| Science | 7 |
| French | 6 |
| RE | 6 |
- a.** Which subjects were equally popular?
- b.** How many students chose maths or English as their favourite subject?
- c.** How many more students chose English as their favourite subject than RE?

- 5)**
- a.** French & RE and Maths & English
- b.** $7 + 10 = 17$
- c.** $10 - 6 = 4$

- 6)** A bar chart to represent the laptops in each household
- 
- | Number of laptops | Frequency |
|-------------------|-----------|
| 0 | 3 |
| 1 | 8 |
| 2 | 9 |
| 3 | 0 |
| 4 | 7 |
- a.** How many households had 3 laptops?
- b.** What was the most number of laptops that a household had?
- c.** How many fewer households had 0 laptops than houses with 1 laptop?

- 6)**
- a.** 0
- b.** 4
- c.** $8 - 3 = 5$

Bar Charts - Answers

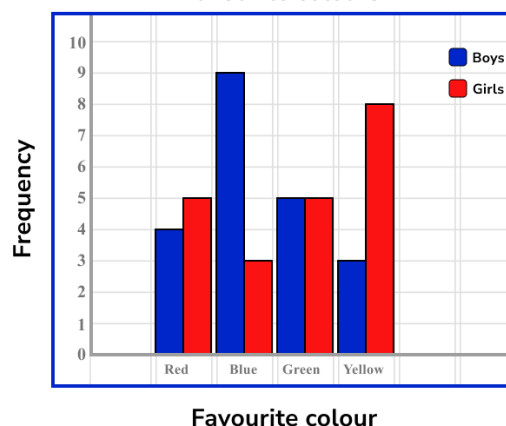
Group C

Represent the data in each table in a comparative bar chart:

- 1) Boys and girls were asked what their favourite colour is:

Colours	Boys	Girls
Red	4	5
Blue	9	3
Green	5	5
Yellow	3	8

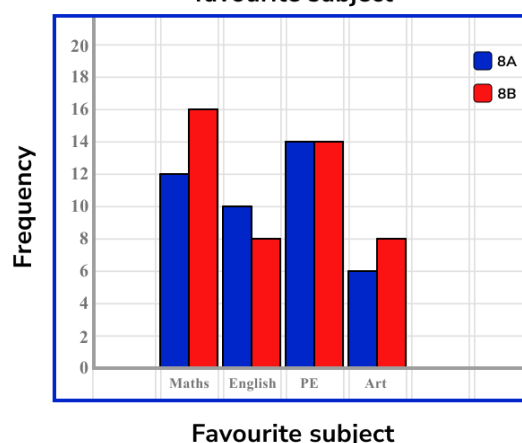
1) A bar chart to compare student's favourite colours



- 2) Two classes were asked what their favourite subject is:

Subject	8A	8B
Maths	12	16
English	10	8
PE	14	14
Art	6	8

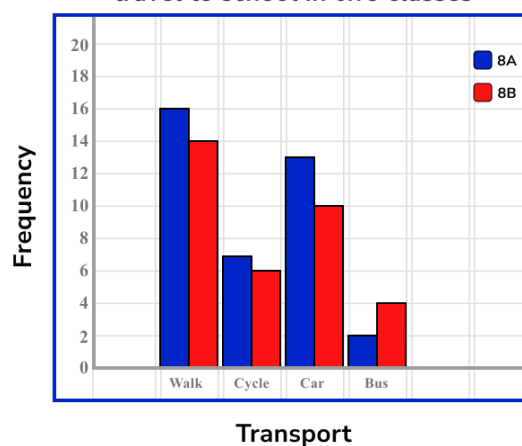
2) A bar chart to compare student's favourite subject



- 3) Two classes were asked how they travel to school.

Transport	8A	8B
Walk	16	14
Cycle	7	6
Car	13	10
Bus	2	4

3) A bar chart to compare how students travel to school in two classes



Bar Charts - Answers

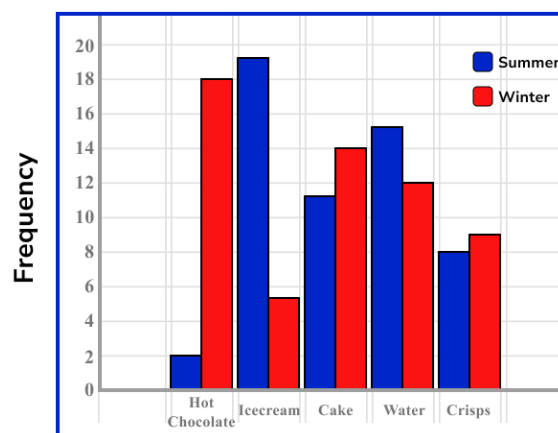
Group C
contd

- 4) A cafe records sales on a day in winter and a day in summer:

Item	Summer	Winter
Hot chocolate	2	18
Ice cream	19	5
Cake	11	14
Water	15	12
Crisps	8	9

4)

A bar chart to compare the items sold in a cafe



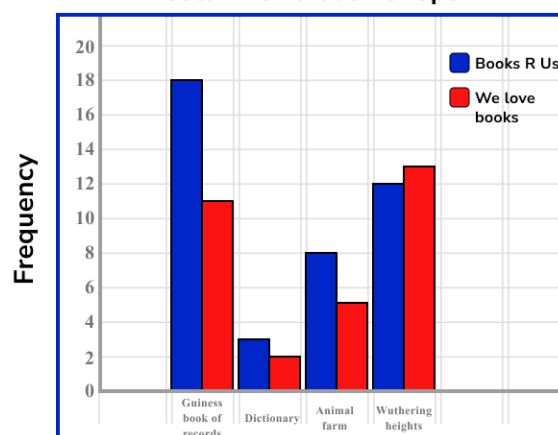
Item in cafe

- 5) Two shops record the sales of books in a day:

Book	Book R Us	We Love Books
Guinness book of records	18	11
Dictionary	3	2
Animal Farm	8	5
Wuthering Heights	12	13

5)

A bar chart to compare the books sold in two book shops



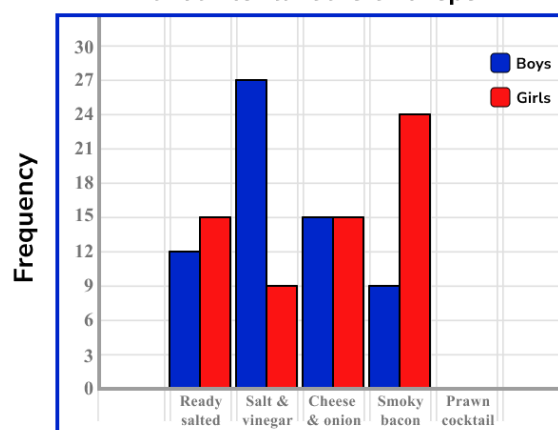
Books

- 6) Boys and girls record their favourite flavours of crisps:

Flavour	Boys	Girls
Ready Salted	12	15
Salt and vinegar	27	9
Cheese and onion	15	15
Smoky bacon	9	24

6)

A bar chart to compare student's favourite flavours of crisps



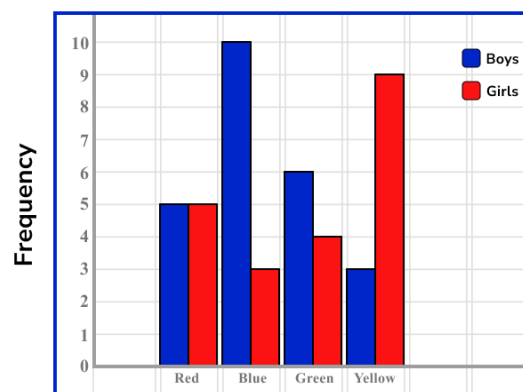
Favourite flavour of crisps

Bar Charts - Answers

Group D

Answer the questions about each comparative bar chart:

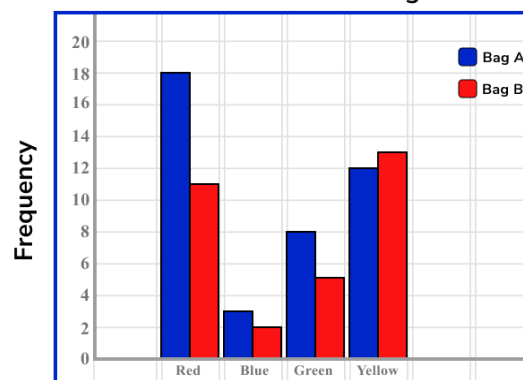
1) A bar chart to compare student's favourite colours



Favourite colour

- Which colour is equally popular with boys and girls?
- How many more boys chose blue than girls?
- Which colour was more popular with girls than boys?

2) A bar chart to compare the colour of counters in two bags



Colour of counters

- Which colour has the lowest amount?
- Which colour was there more of in Bag B than Bag A?
- How many counters were there in Bag A altogether?

1)

- Red
- $10 - 3 = 7$
- Yellow

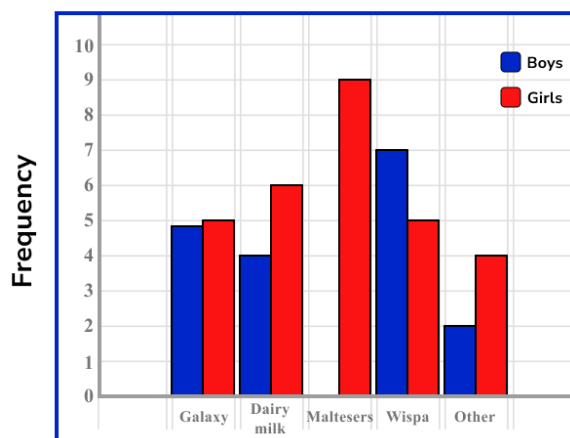
2)

- Blue
- Yellow
- $18 + 3 + 8 + 12 = 41$

Bar Charts - Answers

Group D
contd

3) A bar chart to compare student's favourite chocolate bars



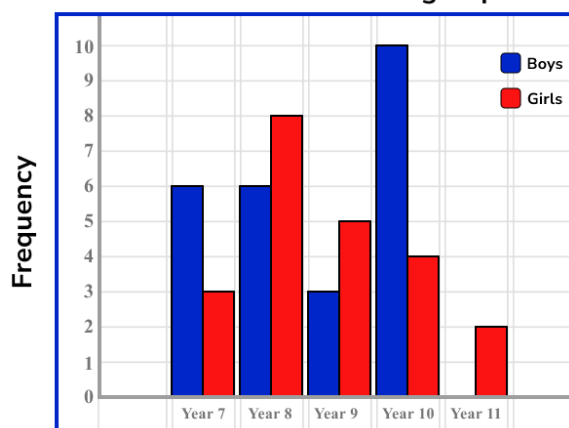
Favourite Chocolate Bar

- a. How many boys chose Maltesers as their favourite chocolate?
- b. How many more girls chose Dairy Milk than boys?
- c. How many students chose Wispa as their favourite chocolate?

3)

- a. 0
- b. $6 - 4 = 2$
- c. $7 + 5 = 12$

4) A bar chart to compare students on the school council in each group



Year group

- a. Which year group has the most boys on the school council?
- b. How many more girls are there in Year 8 than boys in Year 8 on the council?
- c. How many students are on the council altogether?

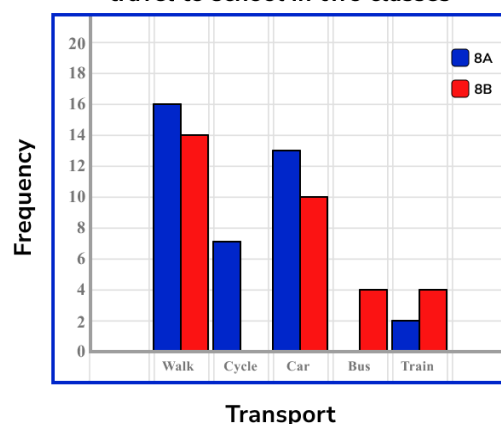
4)

- a. Year 10
- b. $8 - 6 = 2$
- c. $6 + 3 + 6 + 8 + 3 + 5 + 10 + 4 + 2 = 47$

Bar Charts - Answers

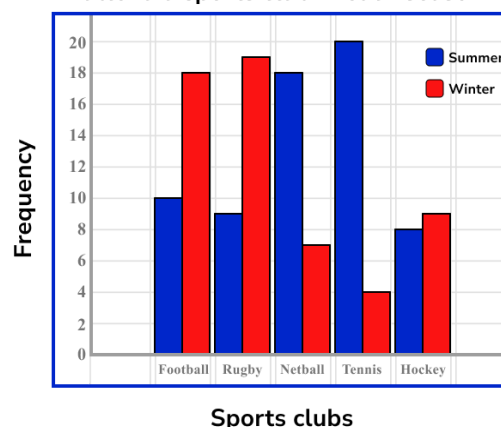
Group D
contd

5) A bar chart to compare how students travel to school in two classes



- Which type of transport did only class 8A use?
- Which type of transport did no students in class 8A use?
- How many more students are in class 8A than class 8B?

6) A bar chart to compare the people who attend a sports club in each season



- Which sports are more popular in summer than winter?
- How many more people attended rugby in the winter than the summer?
- How many more people attended football than hockey?

5)

- Cycle
- Bus
- Class 8A: $16 + 7 + 13 + 2 = 38$
Class 8B: $14 + 10 + 4 + 4 = 32$
 $38 - 32 = 6$

6)

- Netball and Tennis
- $19 - 9 = 10$
- Football: $10 + 18 = 28$
Hockey: $8 + 9 = 17$
 $28 - 17 = 11$

Bar Charts - Answers

Group E

Represent the data in each table in a compound bar chart:

- 1) Boys and girls were asked what their favourite colour is:

Colours	Boys	Girls
Blue	40%	50%
Red	50%	30%
Green	10%	20%

- 2) Two groups were asked which brand of chocolate they preferred:

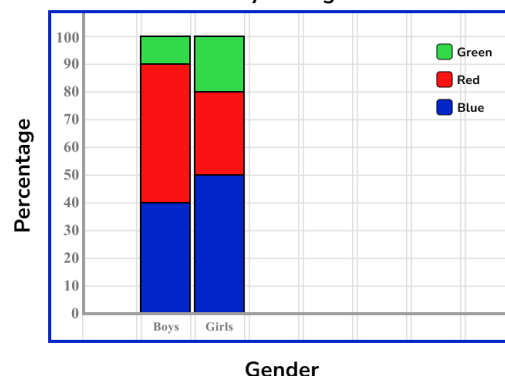
Chocolate brand	Group A	Group B
Cadbury	30%	70%
Mars	50%	50%
Nestle	40%	60%
Terry's	25%	75%

- 3) Men and women were asked which supermarket they prefer to shop at:

Supermarket	Men	Women
Asda	70%	30%
Tesco	20%	80%
Sainsbury's	40%	60%
Waitrose	30%	70%

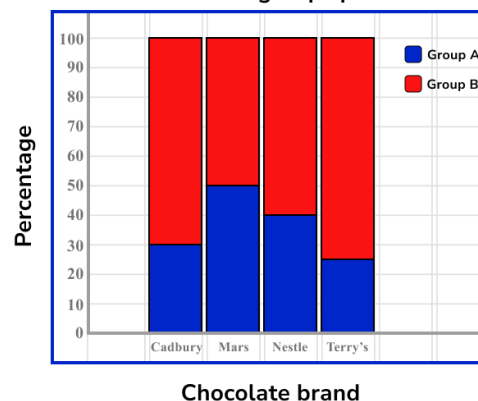
1)

A chart to show the favourite colour of boys and girls



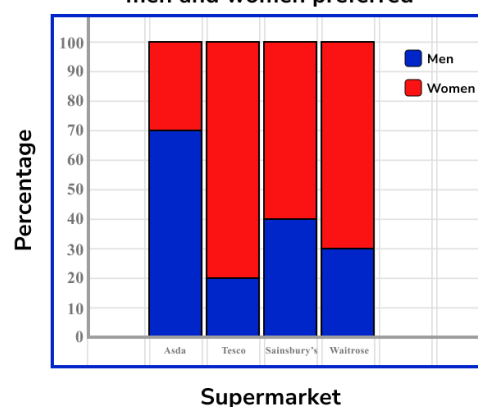
2)

A chart to show which brand of chocolate two groups preferred



3)

A chart to show which supermarket men and women preferred



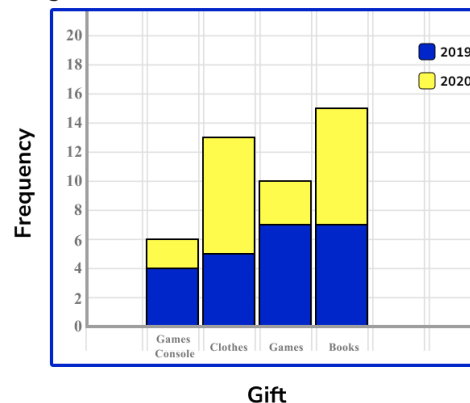
Bar Charts - Answers

Group E
contd

- 4) Students were asked what they received for Christmas in 2019 and 2020:

Gift	2019	2020
Games console	4	2
Clothes	5	8
Games	7	3
Books	7	8

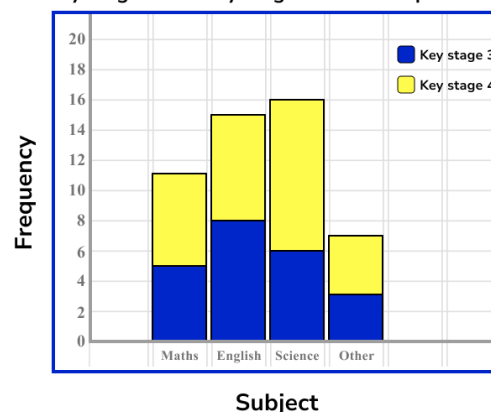
- 4) A compound bar chart to show which gifts students received in 2019 and 2020



- 5) Key stage 3 and Key stage 4 students were asked what their favourite subject is:

Subject	Key stage 3	Key stage 4
Maths	5	6
English	8	7
Science	6	10
Other	3	4

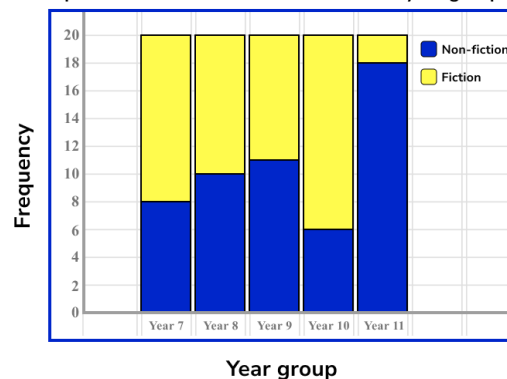
- 5) A compound bar chart to compare which subjects key stage 3 and key stage 4 students preferred



- 6) Students in each year group were asked if they preferred fiction or non-fiction books:

Year group	Non-fiction	Fiction
Year 7	8	12
Year 8	10	10
Year 9	11	9
Year 10	6	14
Year 11	18	2

- 6) A compound bar chart to compare if students preferred non-fiction or fiction in each year group



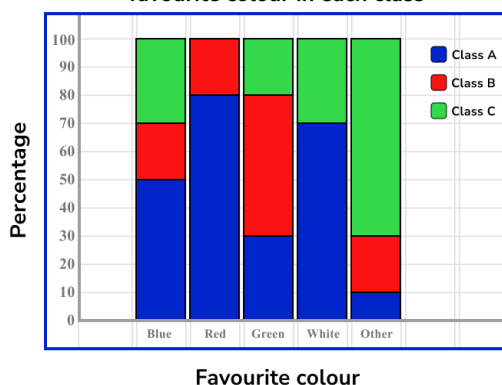
Bar Charts - Answers

Group F

Answer the questions about each chart:

1)

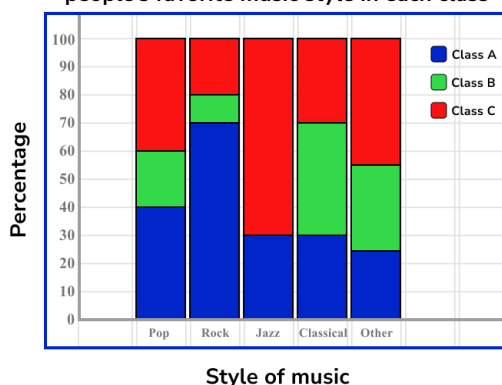
A chart to show percentage of student's favourite colour in each class



- What percentage of students that chose blue are in class A?
- How many students in class C chose red?
- What percentage of students that chose green are in class B?

2)

A compound bar chart to show percentage of people's favorite music style in each class



- What percentage of students chose classical in class C?
- Which style of music was chosen by more students in Class A than the other two classes?
- Does this chart show that more students in Class A chose rock than jazz?

1)

- 50%
- 0
- $80 - 30 = 50\%$

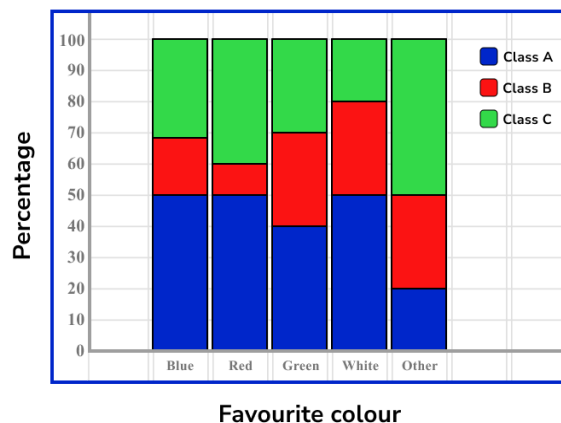
2)

- 30%
- Rock
- No, it only shows a greater percentage, not the amount of students.

Bar Charts - Answers

Group F
contd

3) A chart to show percentage of student's favourite colour in each class

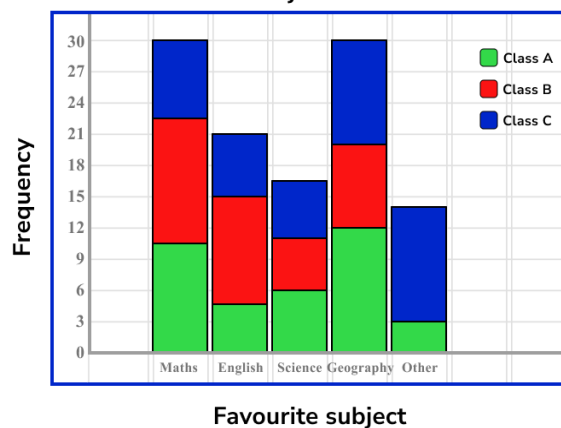


- What percentage of students that chose red are in class B?
- Which class has the highest percentage of students that chose 'other'?
- If Blue was chosen by 10 students, how many of those students were in class A?

3)

- 10%
- Class C
- 5

4) A compound bar chart to show student's favourite subject in each class



- How many students that chose English were in class C?
- Did more students in class A choose geography than science?
- Which two subjects were equally popular?

4)

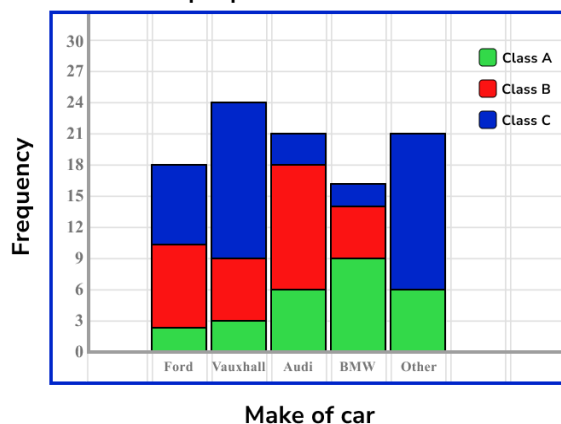
- $21 - 15 = 6$
- Yes, because the bar is taller.
- Maths and Geography were both chosen by a total of 30 students.

Bar Charts - Answers

Group F
contd

5)

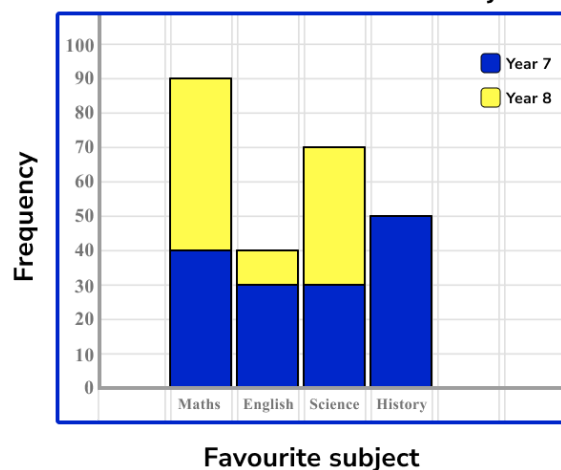
A compound bar chart to show the make of car people in each class own



- Which brand of car was the least common?
- Which brand of car was most common with students in class A?
- Did any students in class B choose 'other'?

6)

A compound bar chart to percentage Year 7 and Year 8's favourite subjects



- How many students in Year 8 chose English?
- Which subject was most popular with Y8?
- Which subject was most popular with year 7?

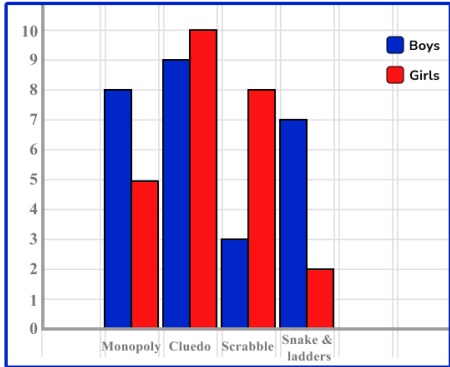
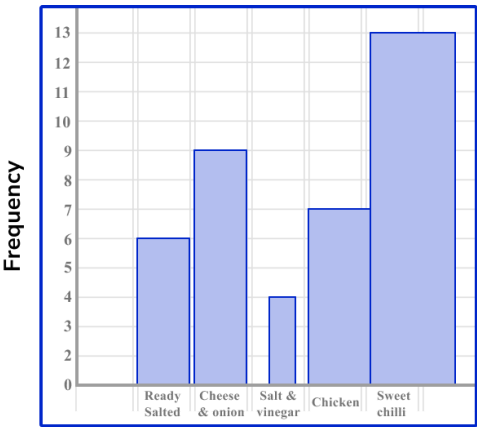
5)

- BMW
- BMW
- No

6)

- 10
- Maths
- History

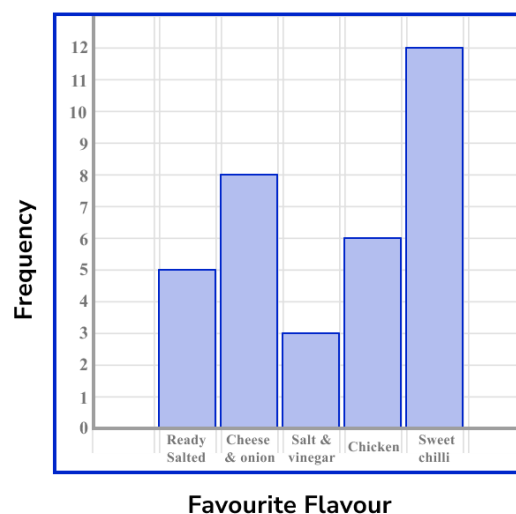
Bar Charts - Answers

	Question	Answer															
	Applied Questions																
1)	Boys and girls were asked what their favourite game was. <table border="1"> <thead> <tr> <th>Favourite game</th><th>Boys</th><th>Girls</th></tr> </thead> <tbody> <tr> <td>Monopoly</td><td>8</td><td>5</td></tr> <tr> <td>Cluedo</td><td>9</td><td>10</td></tr> <tr> <td>Scrabble</td><td>3</td><td>8</td></tr> <tr> <td>Snake and ladders</td><td>7</td><td>2</td></tr> </tbody> </table> a) Represent this information in a suitable chart.	Favourite game	Boys	Girls	Monopoly	8	5	Cluedo	9	10	Scrabble	3	8	Snake and ladders	7	2	a) A bar chart to compare boys and girls favourite board games  Favourite game b) Explain why you chose that type of chart.
Favourite game	Boys	Girls															
Monopoly	8	5															
Cluedo	9	10															
Scrabble	3	8															
Snake and ladders	7	2															
2)	Here is a chart showing the favourite flavour of crisps of a sample of people.  Favourite Flavour a) Give two reasons why this is a misleading graph.	a) The bars do not have equal width. The numbers on the frequency axis do not have equal intervals.															

Bar Charts - Answers

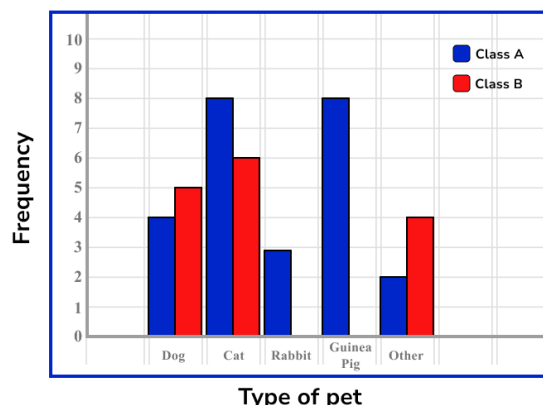
- b)** Represent the data in an accurate bar chart.

- b)** A bar chart to represent people's favourite flavour or crisps



- 3)** This chart represents the number of pets two classes have.

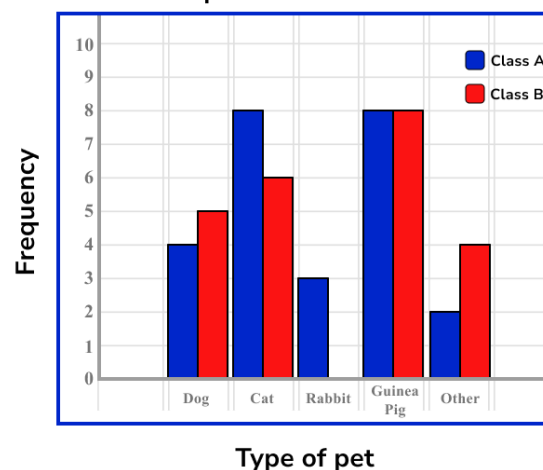
A bar chart to show the number of pets in two classes



Students in class B have 8 guinea pigs.

- a)** Complete the chart to represent this information.

- a)** A bar chart to show the number of pets in two classes



Bar Charts - Answers

- b)** How many pets do students in class A and class B have altogether?

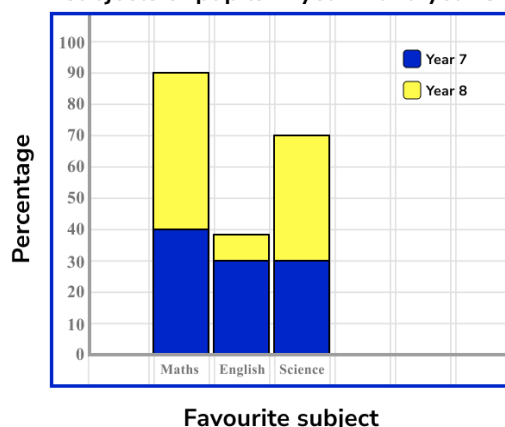
- b)** Class A: $4 + 8 + 3 + 8 + 2 = 25$
 Class B: $5 + 6 + 8 + 4 = 23$
 $25 + 23 = 48$
 48 pets altogether.

- 4)** Students in Year 7 and Year 8 were asked what their favourite subject was and this table shows the results.

Subject	Year 7	Year 8
Maths	40%	50%
English	30%	10%
Science	30%	40%

This data has been displayed in this chart.

A compound bar chart to show the favourite subjects of pupils in year 7 and year 8



- a)** An error has been made. Identify the error

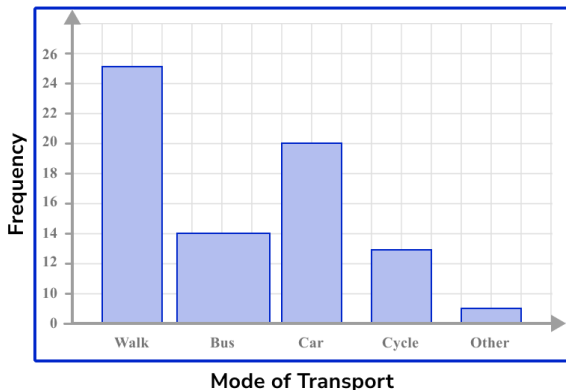
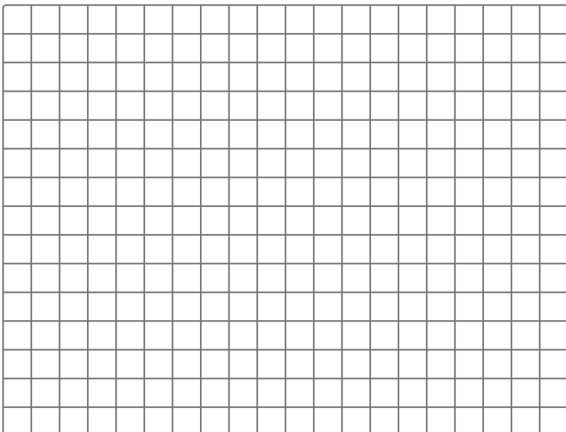
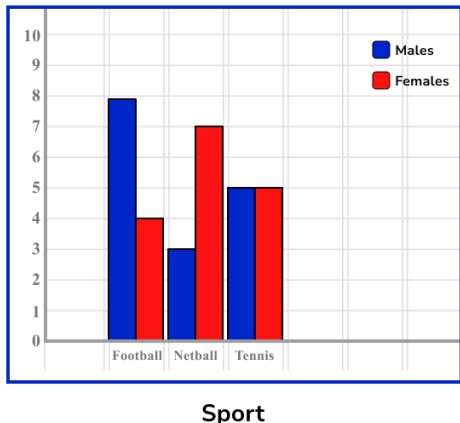
Sam says: 'More students preferred maths in Year 8 than Year 7 because the bar is higher'.

- b)** Explain why Sam might be wrong.

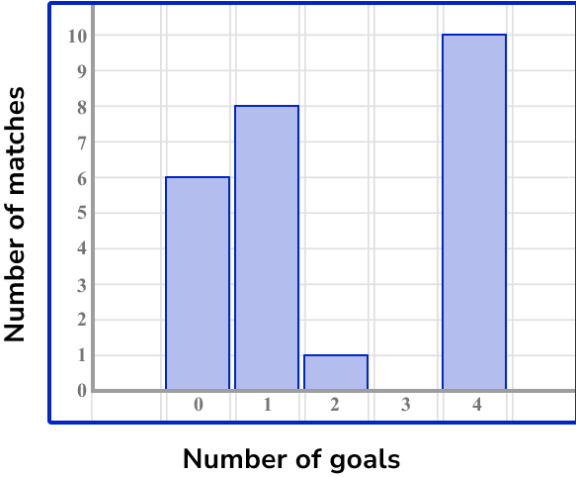
- a)** The bars should be labelled as Year 7 and Year 8, and divided into the three subjects so both bars reach 100%.

- b)** Sam might be wrong as we only know the percentage that preferred maths, not the exact number of students.

Bar Charts - Mark Scheme

	Question	Answer													
	Exam Questions														
1)	This bar chart shows how students get to school. How do students get to school?  Give two reasons why this chart is misleading.	The bars are different widths oe The frequency axis does not increase in equal steps (0-10, 10-12) oe (1) (1)													
2)	Some people were asked if they liked football, netball or hockey. The table shows the results for the males and the results for the females. <table border="1" data-bbox="261 1305 837 1433"><thead><tr><th></th><th>Football</th><th>Netball</th><th>Hockey</th></tr></thead><tbody><tr><td>Male</td><td>8</td><td>3</td><td>5</td></tr><tr><td>Female</td><td>4</td><td>7</td><td>5</td></tr></tbody></table> On the grid, draw a bar chart to show this information. 		Football	Netball	Hockey	Male	8	3	5	Female	4	7	5	Axes drawn and labelled One bar drawn to the correct height All bars drawn to the correct height Correct key A chart to show the sports males and females liked 	(1) (1) (1) (1)
	Football	Netball	Hockey												
Male	8	3	5												
Female	4	7	5												

Bar Charts - Mark Scheme

3)	This graph shows the number of goals scored by a hockey team.  Number of goals		
(a)	Which number of goals is the mode?	(a) 4 goals	(1)
(b)	How many matches did the hockey team play altogether?	(b) $6 + 8 + 1 + 10$ $= 25$	(1) (1)
(c)	What is the range of the number of goals they scored?	(c) $4 - 0$ $= 4$	(1) (1)

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