

Name: _____

Exam Style Questions

Bar Charts

Pictograms

Tally Charts



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 147 & 148

Video 161 & 162

Video 321



1. James asked his friends their favourite colour.

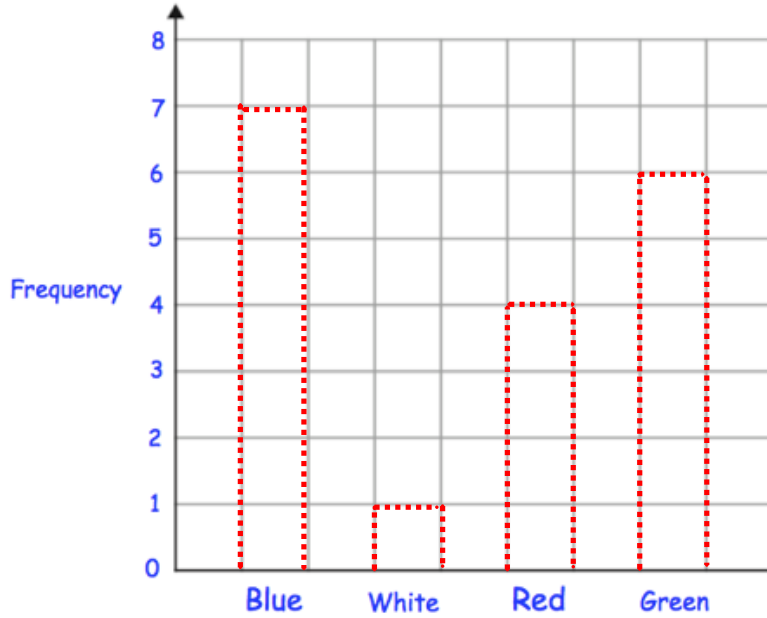
~~Green~~ ~~Blue~~ ~~Red~~ ~~Green~~ ~~Blue~~ ~~Blue~~
~~Green~~ ~~Red~~ ~~Blue~~ ~~White~~ ~~Blue~~ ~~Green~~
~~Red~~ ~~Green~~ ~~Blue~~ ~~Red~~ ~~Blue~~ ~~Green~~

(a) Complete the frequency table for his results.

Colour	Tally	Frequency
Blue	 	7
White		1
Red		4
Green	 	6

(2)

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



(2)

2. Sophie asks 20 of her friends to choose their favourite sport.

Their replies are

~~Rugby~~ ~~Football~~ ~~Rugby~~ ~~Hockey~~ ~~Cricket~~
~~Football~~ ~~Football~~ ~~Rugby~~ ~~Hockey~~ ~~Football~~
~~Rugby~~ ~~Cricket~~ ~~Hockey~~ ~~Football~~ ~~Football~~
~~Football~~ ~~Rugby~~ ~~Football~~ ~~Football~~ ~~Rugby~~

(a) Complete the tally and the frequency columns in the table below.

Sport	Tally	Frequency
Rugby	1	6
Football		9
Hockey		3
Cricket		2

(2)

(b) Draw a pictogram to show these results.

Key: ○ represents 2 people

Rugby	○○○
Football	○○○○○
Hockey	○
Cricket	○

(2)

(c) Sort the sports in order of popularity, starting with the most popular.

Football
 Rugby
 Hockey
 Cricket

(1)

3. Mollie recorded the number of text messages received on each of 18 days.

Here are her results.

~~7~~ ~~9~~ ~~9~~ ~~8~~ ~~9~~ ~~9~~ ~~10~~ ~~6~~ ~~9~~ ~~9~~ ~~7~~ ~~10~~
~~9~~ ~~8~~ ~~8~~ ~~6~~ ~~7~~ ~~6~~

(a) Complete the frequency table to show Mollie's results.

Number of texts	Tally	Frequency
6		3
7		3
8		3
9		7
10		2

(2)

(b) Write down the mode.

9
 (1)

(c) Write down the range.

$$10 - 6 = 4$$

4
 (1)

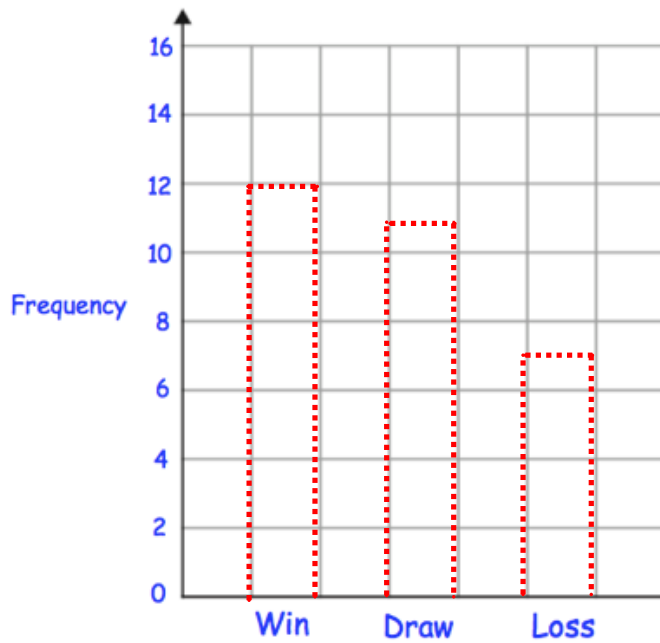
4. Cardiff Rovers Football Club played 30 games in a season.

(a) Complete the tally and frequency columns.

Result	Tally	Frequency
Win		12
Draw		11
Loss		7

(3)

(b) Draw a bar chart to show this information.



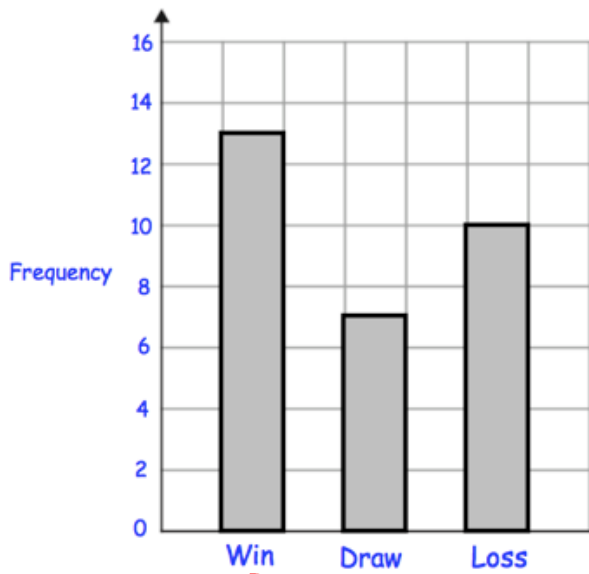
(2)

(c) What was the most common type of result for Cardiff Rovers?

Win
(1)

(d) Newport United Football Club play in the same league.

Their results in the same season are shown below.



A win is worth 3 points.
A draw is worth 1 point.
A loss is worth 0 points.

Newport
 $13 \times 3 = 39$
 $7 \times 1 = 7$
 $\underline{\quad}$
 46

Which club finished the season with more points and by how many?

Cardiff
 $12 \times 3 = 36$
 $11 \times 1 = 11$
 $\underline{\quad}$
 47

Cardiff Rovers by 1 points
(4)

5. A group of students were asked their favourite subject.

Here are their replies.

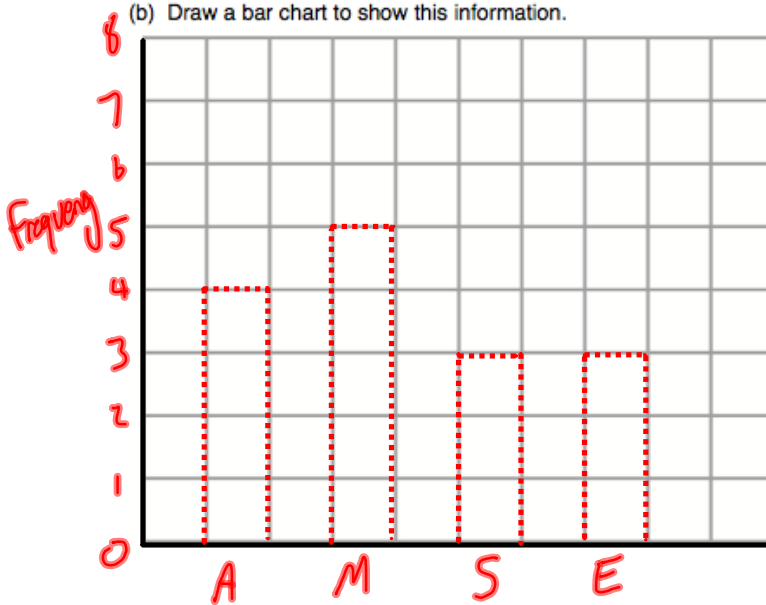
~~Maths~~ ~~Art~~ ~~Science~~ ~~English~~ ~~Art~~
~~Maths~~ ~~English~~ ~~Science~~ ~~Art~~ ~~English~~
~~Maths~~ ~~Maths~~ ~~Art~~ ~~Maths~~ ~~Science~~

(a) Show this information in a tally chart.

Subject	Tally	Frequency
Art		4
Maths		5
Science		3
English		3

(2)

(b) Draw a bar chart to show this information.



(3)

6. A class of 20 students complete a test.
The test is marked out of 50.
The scores are recorded below.

~~34~~ ~~10~~ ~~19~~ ~~41~~ ~~22~~ ~~18~~ ~~28~~ ~~24~~ ~~30~~ ~~48~~
~~38~~ ~~14~~ ~~23~~ ~~30~~ ~~38~~ ~~27~~ ~~21~~ ~~43~~ ~~25~~ ~~39~~

- (a) Complete the tally and frequency columns in the chart below.

Score	Tally	Frequency
1 - 10		1
11 - 20		3
21 - 30	-	8
31 - 40)	4
41 - 50		4

(2)

- (b) How many students scored between 21 - 30 marks?

8
.....
(1)

- (c) What fraction of the students scored 41 - 50 marks?

$\frac{4}{20} = \frac{1}{5}$
 $\frac{1}{5}$
.....
(1)

7. The table shows information about the number of phone calls received by some students last week.

Student	Frequency
Patrick	12
Andrew	20
David	6
George	9

Show this information on a pictogram.

Patrick	○○○
Andrew	○○○○○
David	○ ◡
George	○○ ◡

Key: ○ means 4 phone calls

(3)

8. The pictogram shows the amount of money raised by students in some tutor groups at a school.

Key ○ = £10

Tutor group		Raised
S	○ ○ ○ ○ ○ ○ ○	£60
T	○ ○ ○	£30
E	○ ○ ○ ○ ○	£45
P	○ ○ ○ □	£35





- (a) Complete the raised column. (2)
- (b) Complete the pictogram for tutor group E. (2)
- (c) How much money was raised altogether?

$$60 + 30 + 45 + 35 = 170$$

£170
.....
(1)

9. The pictogram shows the books Claire read last year.

Key  represents 8 books

Romance		16
Crime		10
Horror		12
Factual		6

(a) How many romance books did Claire read?

16
(1)

(b) How many horror books did Claire read?

12
(1)


























(c) How many books in total did Claire read last year?

$$\begin{array}{r}
 16 \\
 + 10 \\
 12 \\
 6 \\
 \hline
 44
 \end{array}$$

44
(2)

10. The number of hours of sunshine on a day, across a number of cities is shown below.

 = 2 hours of sunshine

Norwich	      	11
Dublin	   	8
Belfast	   	7
Aberdeen	 	4
Cardiff	   	8
Glasgow	    	

- (a) How many more hours of sunshine was there in Norwich than Belfast?

.....hours
4
(1)

In Glasgow there was 9 hours of sunshine.

- (b) Complete the pictogram.

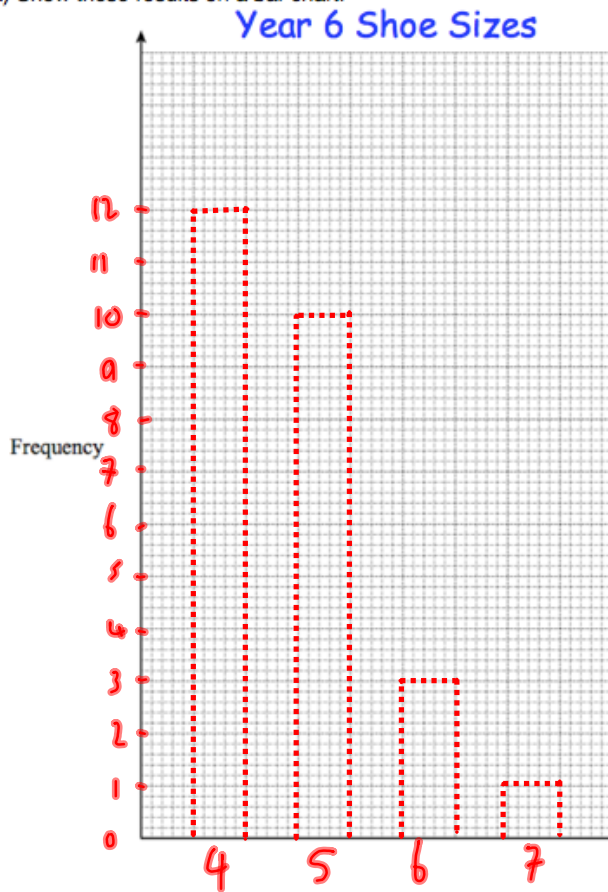
(2)

11. The shoe sizes of two classes are recorded. One class is Year 6 and the other Year 7.

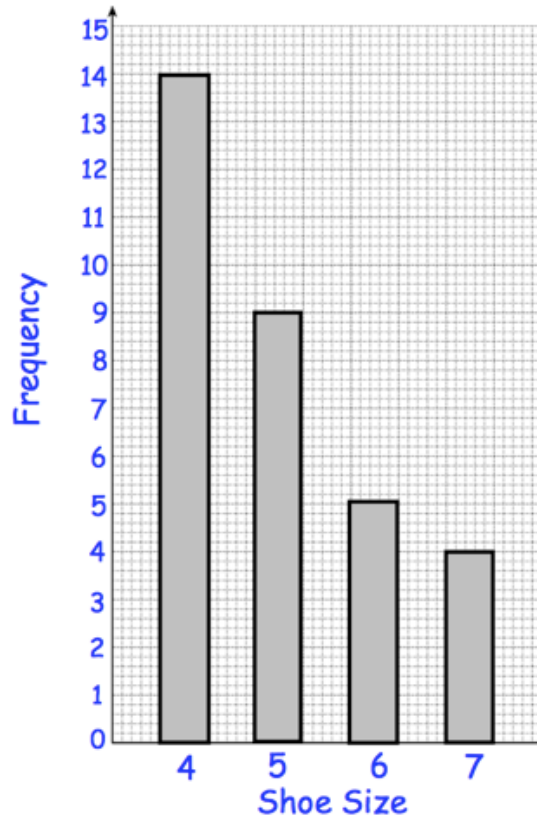
Here are the shoe size for the Year 6 class.

Shoe Size	Frequency
4	12
5	10
6	3
7	1

- (a) Show these results on a bar chart.



Here are the shoe sizes for Year 7.



(b) How many Year 7's wear a size 5?

9

(1)

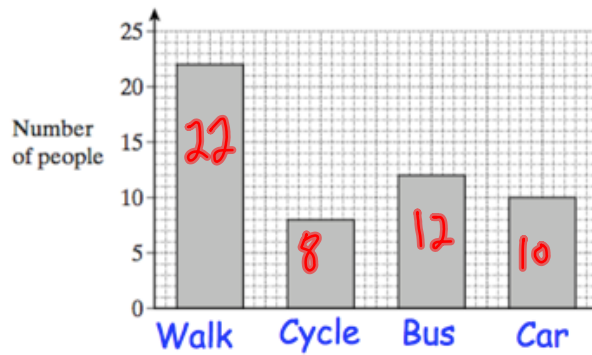
(c) How many more Year 7's than Year 6's wear a size 7?

4-1

3

(1)

12. A manager surveys his employees to find out how they travel to work.



(a) What is the least popular method of transport?

cycle
(1)

(b) What is the most popular method of transport?

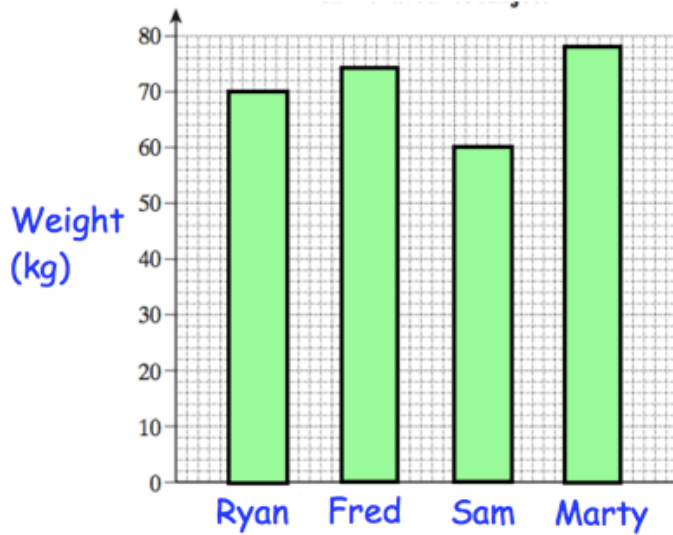
walk
(1)

(c) Calculate the total number of employees.

$$22 + 8 + 12 + 10$$

52
(2)

13. The weights of four athletes are displayed below.



(a) Who is the lightest athlete?

Sam
.....
(1)

(b) Write down Marty's weight.

78
.....kg
(1)

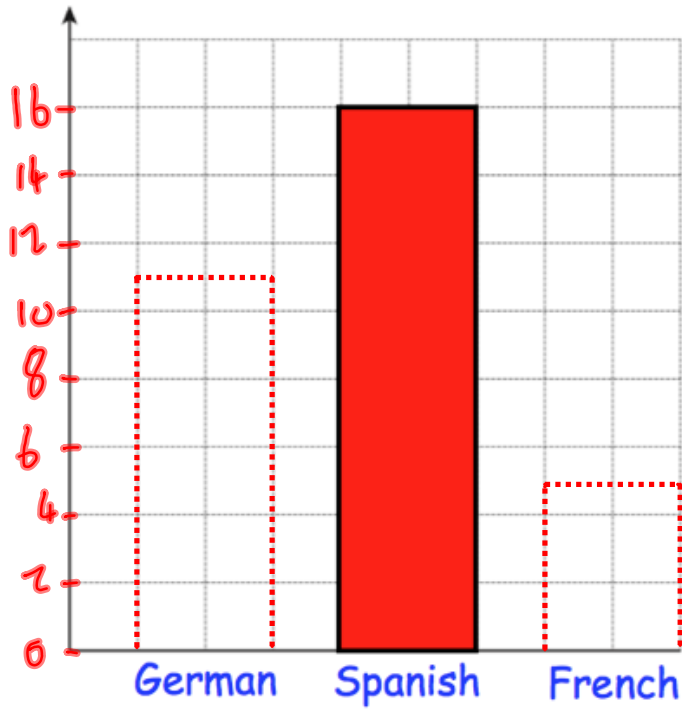
(c) Work out the range of the weights.

$$78 - 60 = 18$$

18
.....kg
(2)

14. Miss Jackson asked the 32 students in her tutor group which language they study.

Each student studies one language only.



Half of the students in the tutor group study Spanish.
Six more students study German than French.

Complete the bar chart.

(4)