

Name: _____

Exam Style Questions

Tally Charts



Corbettmaths

Equipment needed: Ruler, pencil and pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 321



Answers and Video Solutions



1.



The tally chart shows information about the number of cruise ships that visit a port in January, February and March.

	Tally	Frequency
January	 	17
February		4
March	 	9

Complete the tally chart.

(2)

2.



A teacher asks her students their favourite colour.

Here are the replies

~~Green~~ ~~Yellow~~ ~~Red~~ ~~Red~~ ~~Blue~~
~~Yellow~~ ~~Blue~~ ~~Green~~ ~~Blue~~ ~~Blue~~
~~Green~~ ~~Blue~~ ~~Blue~~ ~~Blue~~ ~~Blue~~

Complete the table.

Colour	Tally	Frequency
Blue	 	8
Green		3
Red		2
Yellow		2

(2)

3. Anna lists the flavours of ice cream bought by each customer one day.



Here are the results.

Chocolate	Vanilla	Chocolate	Strawberry
Strawberry	Mint	Chocolate	Strawberry
Chocolate	Mint	Vanilla	Mint
Chocolate	Strawberry	Strawberry	Strawberry
Mint	Strawberry	Chocolate	Strawberry

- (a) Complete the table to show Anna's results.

Flavour	Tally	Frequency
Chocolate	1	6
Mint		4
Strawberry		8
Vanilla		2

- (b) Which of the flavours was the most popular?

Strawberry (1)

- (c) Which of the flavours was the least popular?

Vanilla (1)

4.

The number of trees planted in an orchard is recorded in the table below.



Day	Tally	Frequency
Monday	 	9
Tuesday	 	15
Wednesday	 	12
Thursday	 	6
Friday		3

(a) Complete the frequency column.

(1)

(b) Calculate the total number of trees planted.

$$9 + 15 + 12 + 6 + 3 = 45$$

45

(1)

(c) How many more trees were planted on Wednesday than Friday?

$$12 - 3$$

9

(1)

5. Rosco works in a leisure centre.



He makes this tally and frequency chart to show which activities customers choose.

①

↙ ↘

Activity	Frequency	Tally
Badminton		5
Gym		11
Swimming		7
Tennis		4

✓
✓
x (2)
✓

Make two criticisms of Rosco's tally and frequency chart.

Criticism 1

Rosco has labelled the columns incorrectly.
They should be "Activity, Tally and then Frequency."

Criticism 2

The frequency for swimming is 7 but the tally is 8. They should be the same.

(2)

6. Hannah has a tub of brown, orange, pink and red counters.



The tally chart shows information about the colour of the counters.

Colour	Tally	Frequency
Brown		5
Orange		19
Pink		3
Red		13

- (a) What fraction of the counters are pink?

$$5 + 19 + 3 + 13 = 40$$

$$\frac{3}{40}$$

(2)

Hannah says that over half of the counters are orange.

Is she correct?

Explain your answer.

No, $\frac{19}{40}$ is less than half.
 Half of the counters would be 20, but there are only 19 orange counters.

(2)

7. 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) Work out the range

$$10 - 6 = 4$$

4

(2)

8. 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~~ ~~50~~ ~~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 and 30 marks?

8
.....
(1)

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

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

9. The ages of 24 tennis players are recorded below.



~~25~~ ~~18~~ ~~32~~ ~~19~~ ~~39~~ ~~35~~ ~~22~~ ~~27~~
~~24~~ ~~23~~ ~~38~~ ~~19~~ ~~23~~ ~~25~~ ~~31~~ ~~42~~
~~20~~ ~~27~~ ~~34~~ ~~15~~ ~~31~~ ~~26~~ ~~43~~ ~~29~~

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

Age	Tally	Frequency
11 - 20		5
21 - 30		10
31 - 40		7
41 - 50		2

- (b) Write down the modal age interval.

21 - 30
 (1)

A tennis player is chosen at random from the group.

- (c) Write down the probability that the tennis player is aged between 31 and 40.

$$\frac{7}{24}$$

 (1)

10. Florence is saving money for her holiday.
In total, she has 30 bank notes.



The table below shows some information about the bank notes.

Note	Tally	Frequency
£5	 	9
£10	 	13
£20	1	6
£50		2

Work out how much money Florence has saved for her holiday.

$$9 + 13 + 2 = 24$$

$$30 - 24 = 6$$

$$9 \times 5 = 45$$

$$13 \times 10 = 130$$

$$6 \times 20 = 120$$

$$2 \times 50 = 100$$

$$\begin{array}{r} 45 \\ 130 \\ 120 \\ 100 \\ \hline 395 \end{array}$$

$$\begin{array}{r} 395 \\ \text{£} \dots\dots\dots \end{array}$$

(4)