

Name: \_\_\_\_\_

## Exam Style Questions

# Tally Charts



Corbettmaths

Equipment needed: Ruler, pencil, calculator 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](http://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  |       |           |
| 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   |       |           |
| Green  |       |           |
| Red    |       |           |
| Yellow |       |           |

(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  |       |           |
| Mint       |       |           |
| Strawberry |       |           |
| Vanilla    |       |           |

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

.....  
(1)

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

.....  
(1)

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



| Day       | Tally | Frequency |
|-----------|-------|-----------|
| Monday    |       | 9         |
| Tuesday   |       |           |
| Wednesday |       |           |
| Thursday  |       |           |
| Friday    |       |           |

(a) Complete the frequency column.

(1)

(b) Calculate the total number of trees planted.

.....  
(1)

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

.....  
(1)

5. Rosco works in a leisure centre.



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

| Activity  | Frequency | Tally |
|-----------|-----------|-------|
| Badminton |           | 5     |
| Gym       |           | 11    |
| Swimming  |           | 7     |
| Tennis    |           | 4     |

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

Criticism 1

.....

.....

.....

Criticism 2

.....

.....

.....

(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  |       |           |
| Orange |       |           |
| Pink   |       |           |
| Red    |       |           |

(a) What fraction of the counters are pink?

.....  
(2)

Hannah says that over half of the counters are orange.

Is she correct?  
Explain your answer.

.....  
.....  
.....

(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               |       |           |
| 7               |       |           |
| 8               |       |           |
| 9               |       |           |
| 10              |       |           |

(2)

(b) Write down the mode.

.....  
(1)

(c) Work out the range

.....  
(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  |       |           |
| 11 - 20 |       |           |
| 21 - 30 |       |           |
| 31 - 40 |       |           |
| 41 - 50 |       |           |

(2)

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

.....  
(1)

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

.....  
(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 |       |           |
| 21 - 30 |       |           |
| 31 - 40 |       |           |
| 41 - 50 |       |           |

(b) Write down the modal age interval.

.....  
(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.

.....  
(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  |       |           |
| £20  |       |           |
| £50  |       |           |

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

£.....

(4)