

FREQUENCY TABLES

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TARGET To organise data by creating a frequency table.

Example

The 60 children in Year 5 travel to school in one of four ways:

- B Bike
C Car
S School bus
W Walk

This is how each of the 60 children travelled on one day.

W C S W B W S C W S
S W S C S W C S B W
C W B S C W S W W C
W S C W S W B C S W
B W S B W C S W C S
S C W S C B S W S W

A tally chart can be completed by counting in groups of five.

Travel Method	Tally
Bike	
Car	
School Bus	
Walk	

The data can be presented in a frequency table.

Travel Method	Number of children
Bike	7
Car	13
School Bus	19
Walk	21
Total	60

A

- 1 The children in Class 5 were asked to choose a flavour of yogurt to take on a trip for lunch time. The flavours available were hazelnut, orange, peach and strawberry. These are the choices.

S P H O P S H
H O P S H O P
P H S P H P O
S P O H S P H

- a) Copy and complete the tally chart.

Flavour	Tally
hazelnut	
orange	
peach	
strawberry	

- b) Present the data in a frequency table.

- 2 These are the ages of the 36 children in the school chess club.

9 11 10 8 9 11 9 10 11
10 8 9 11 8 9 10 11 9
8 9 11 10 10 8 11 9 10
11 10 9 11 9 10 9 8 11

- a) Copy and complete the tally chart.

Age	Tally
8	
9	
10	
11	

- b) Present the data in a frequency table.



B

- 1 A football team played 50 matches in one season. These are the number of goals the team scored in each match.

1 3 2 0 1 1 2 4 2 1
2 1 0 3 2 3 1 0 1 2
0 4 2 1 1 2 0 2 3 1
1 2 0 1 0 3 2 1 0 4
2 3 1 2 2 1 1 0 2 1



- a) Make a tally chart to find the total for each number of goals scored.
b) Present the data in a frequency table.
c) Check that the sum of the totals is 50.

- 2 A shop sells baseball caps in four different colours: black, red, white and yellow. In one day the following caps were sold.

B W Y B W W R
Y B W R Y W B
W R Y W B R W
B W R B Y W Y
R B Y W R B W
Y W R W B W Y

- a) Make a tally chart to find the total for each colour of cap.
b) Present the data in a frequency table.
c) Check that the sum of the totals matches the number of caps sold.

C

- 1 The depth of a river was recorded each week for a year. These are the results rounded to the nearest metre.

6 5 5 4 6 5 4 4 3
5 5 4 3 4 3 3 2 3
2 3 2 2 3 3 2 4 3
4 3 2 2 4 3 2 4 3
5 4 3 3 4 5 3 4 5
6 4 4 6 5 4 6

- a) Make a tally chart to find the total of weeks for each depth.
b) Check that the sum of the totals matches the number of weeks.
c) Present the data in a frequency table.

- 2 The 60 employees of a firm voted to choose the restaurant they would go to for their annual Staff Meal. The five restaurants large enough to cater for the group were Chinese, English, French, Italian and Thai. The votes were:

I C E F I T E C I F
C F C I E C T F E I
I E T C I F I E T C
T I F E C E T C F I
E F C I F T E I C I
C T E F I C T F I E

- a) Make a tally chart to show the total of votes for each restaurant.
b) Check that the sum of the totals matches the number of employees.
c) Present the data in a frequency table.