

TASK 1:

Jackie writes down the colour of all the cars in a car park. Here is her list:

~~red~~ black black blue
blue silver orange silver
green blue red red
black black silver green
green purple red red
black green blue red
silver black pink blue
blue red red silver

She needs to organise this data so it is easier to visualise.

A **frequency table** lists how many cars there are of each colour.

colour	tally
red	
black	
blue	
green	
silver	
other	



Go through the data in order crossing off each car and putting a tally mark in the correct row.

TASK 2:

Jackie writes down the colour of all the cars in a car park. Here is her list:

~~red~~ ~~black~~ ~~black~~ ~~blue~~
~~blue~~ ~~silver~~ ~~orange~~ ~~silver~~
~~green~~ ~~blue~~ ~~red~~ ~~red~~
~~black~~ ~~black~~ ~~silver~~ ~~green~~
~~green~~ ~~purple~~ ~~red~~ ~~red~~
~~black~~ ~~green~~ ~~blue~~ ~~red~~
~~silver~~ ~~black~~ ~~pink~~ ~~blue~~
~~blue~~ ~~red~~ ~~red~~ ~~silver~~

She needs to organise this data so it is easier to visualise.

A **frequency table** lists how many cars there are of each colour.

colour	tally	frequency
red	III	
black	I	
blue	I	
green		
silver		
other		

Fill in the frequencies.

Check they add up to 32, the number of cars in the survey.

TASK 3:
Here are the marks scored by a class in their last mental arithmetic test.

7 13 20 1 19 19
19 15 12 9 18 14
2 8 15 12 7 11
10 17 15 9 16 15

Why is it not a good idea to tally the results in this table?

score	tally	frequency
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		

TASK 4:

Here are the marks scored by a class in their last mental arithmetic test.

7 13 20 1 19 19
19 15 12 9 18 14
2 8 15 12 7 11
10 17 15 9 16 15

Why is it not a good idea to tally the results in this table?

There are **too many categories**.
A lot of the scores only come up once or twice. It will be hard to get an overview of how the class did.

It makes more sense to **group** the scores.

score	tally	frequency
1 - 4		
5 - 8		
9 - 12		
13 - 16		
17 - 20		

You won't be able to tell exactly what each student got but you will get an idea of how the class did overall.

Click the values to cancel them out and click the arrows to add tally marks.

Fill in the frequency column.