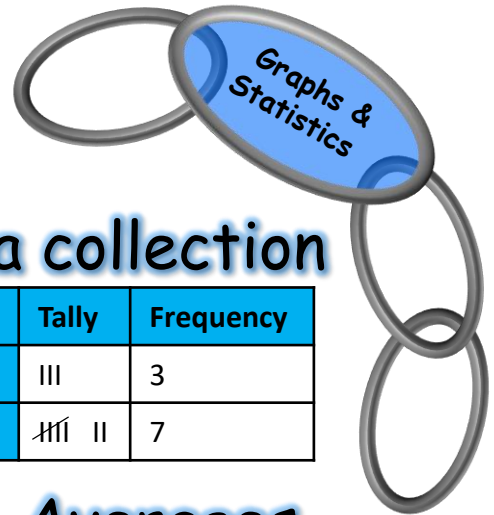


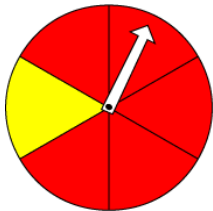
# Graphs and Statistics



## Sample size

Remember the larger a sample, the more accurate the data.

Make sure your sample isn't biased (unfair).



## Random

e.g. Select names out of a hat.

## Questionnaire and survey

### Checklist

- Unbiased.
- Not vague.
- Not personal.
- Time frame in the question.
- Three or more category options.
- Categories don't overlap.
- 'None', 'other' and 'more' categories included when appropriate.



## Types of sampling

### Stratified

Selects proportional amount of people from each group.

## Data collection

Event	Tally	Frequency
Red		3
Blue		7

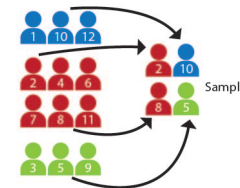
## Averages

**Median** □ Middle value.

**Mode** □ Most common value.

**Mean** □ Add all the values together then divide by how many there are.

**Range** □ Subtract the smallest from the largest value (tells you about the consistency of the results).



$$\text{Proportion of people} = \frac{\text{Group size}}{\text{Population}} \times \text{Sample size}$$