# P08 Instructor & Reference Guide – Pie Chart

## Theory Brief

Pie charts show the relative proportions of a whole. They are best used when there are a small number of categories and the differences between segments are clear.

## Worked Example

Below is a snapshot of the first few rows of the synthetic dataset and summary statistics:

Segment Count  
Segment A 171  
Segment B 177  
Segment C 95  
Segment D 155

### Basic Statistics

* Count\_mean: 149.50
* Count\_median: 163.00
* Count\_mode: 95.00
* Count\_var: 1406.33
* Count\_std: 37.50

### Visualisations

An example plot is saved in the results folder as P08\_plot1.png.

## Evaluation Rubric

* Proper creation and labelling of pie chart (50%)- Correct calculation of percentages (20%)- Quality of discussion on chart appropriateness (20%)- Organisation of report (10%)

## Common Pitfalls

Using too many slices or colours can make pie charts hard to read; exploding too many slices can distract from the message.