## 1A Populations \& Samples

Population

Census

Sample

| Advantages | Disadvantages |
| :--- | :---: | :---: |
| Census $\rightarrow$ Completely accurate result | $\rightarrow$ Time consuming <br> $\rightarrow$ Cannot be used if the sampling <br> process would render the items <br> unusable |
| $\rightarrow$ Processing a lot of data takes a |  |
| long time |  |$|$

1. A supermarket wants to test a delivery of avocados for ripeness by cutting them in half.
a) Suggest a reason why the supermarket should choose a sample rather than a census

The supermarket tests a sample of 5 avocados and find that 4 of them are ripe. They estimate that $80 \%$ of the total are ripe.
b) Suggest a way this estimate could be improved

