Population Pyramids

A popluation pyramid is a back-to-back histograms which allow us to compare two sexes in various age categories.

It is ususal for the age categories to go down the centre of the two histograms and frequency or proportion to be a symmetrical scale both left and right for males and females.

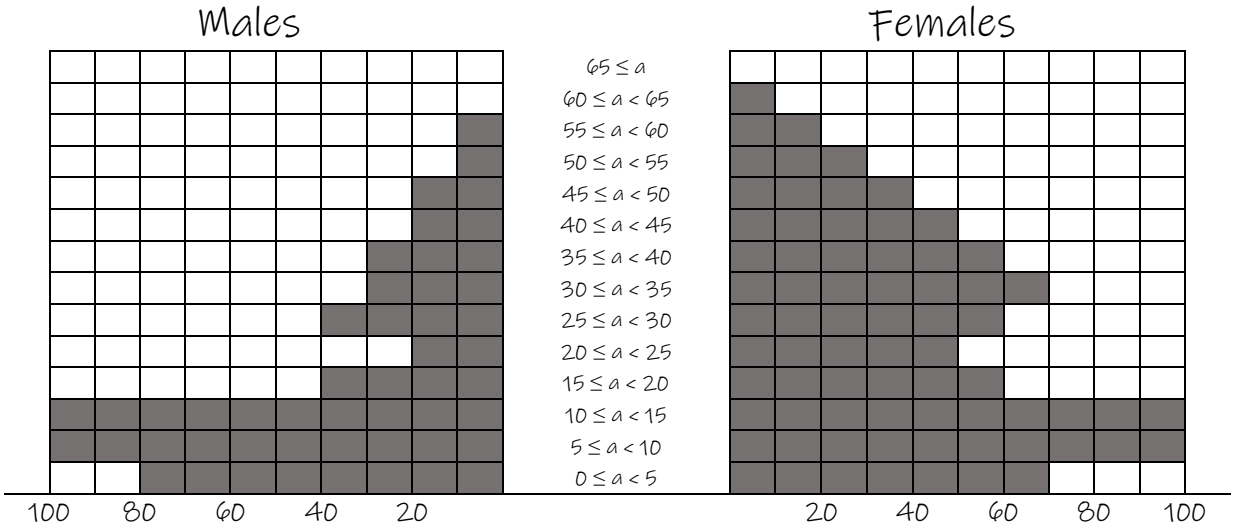
A key is not essential as the two sides are usually labelled.

As most questions for population pyramids will ask you to **compare** the two data sets it is important to remember:

- Do not just quote values. A comparion should state which is higher/lower and by how much
- It is important when reading from a populaiton pyramid that you identify if the data shown is frequencies or proportions of the population. When commenting on, or comparing the two data sets it is essential that you only comment on the **proportion** of the population if that is what is shown on the graph.

For the following population pyramid, answer the corresponding questions

The percentage of people in full time education



What percentage of females age $0 \leq a < 5$ are in full time education?

_____ %

What percentage of females age $55 \leq a < 60$ are in full time education?

_____ %

What percentage of males age $15 \leq a < 20$ are in full time education?

_____ %

What percentage of males age $40 \leq a < 45$ are in full time education?

_____ %

Who has a higher percentage of $0 \leq a < 5$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a more $5 \leq a < 10$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $10 \leq a < 15$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $20 \leq a < 25$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $30 \leq a < 35$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a more $35 \leq a < 40$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $40 \leq a < 45$ year olds in full time education?

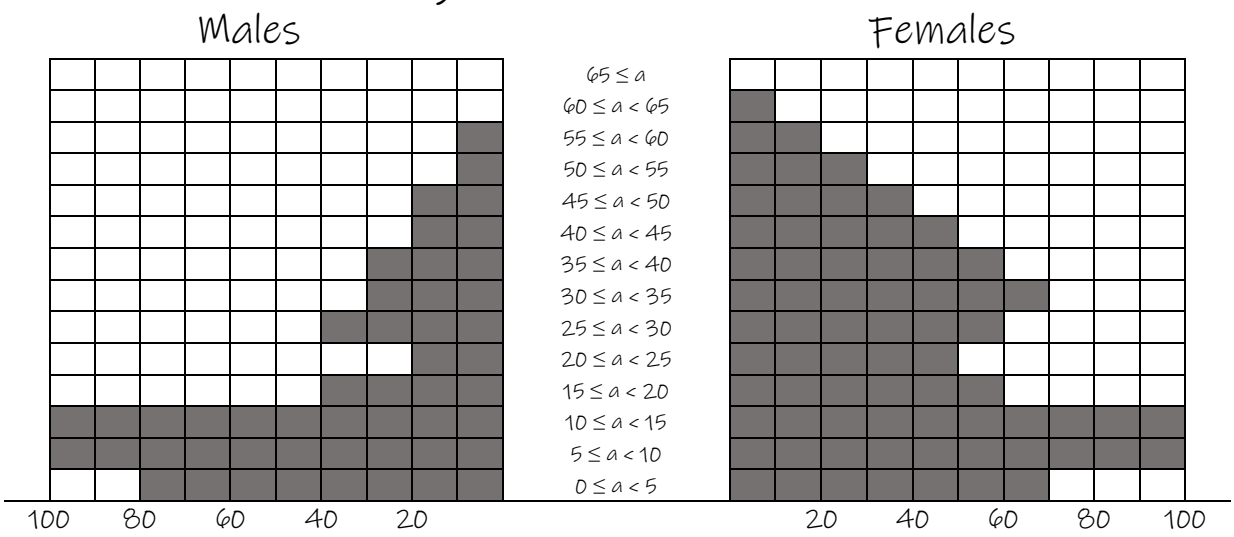
☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $50 \leq a < 55$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☐ Can't Tell

Solutions

The percentage of people in full time education



What percentage of females age $0 \leq a < 5$ are in full time education?

70 %

What percentage of females age $55 \leq a < 60$ are in full time education?

20 %

What percentage of males age $15 \leq a < 20$ are in full time education?

40 %

What percentage of males age $40 \leq a < 45$ are in full time education?

20 %

Who has a higher percentage of $0 \leq a < 5$ year olds in full time education?

☒ Males ☐ Females ☐ Equal ☐ Can't Tell

Who has a more $5 \leq a < 10$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☒ Can't Tell

Who has a higher percentage of $10 \leq a < 15$ year olds in full time education?

☐ Males ☐ Females ☒ Equal ☐ Can't Tell

Who has a higher percentage of $20 \leq a < 25$ year olds in full time education?

☐ Males ☒ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $30 \leq a < 35$ year olds in full time education?

☐ Males ☒ Females ☐ Equal ☐ Can't Tell

Who has a more $35 \leq a < 40$ year olds in full time education?

☐ Males ☐ Females ☐ Equal ☒ Can't Tell

Who has a higher percentage of $40 \leq a < 45$ year olds in full time education?

☐ Males ☒ Females ☐ Equal ☐ Can't Tell

Who has a higher percentage of $50 \leq a < 55$ year olds in full time education?

☐ Males ☒ Females ☐ Equal ☐ Can't Tell