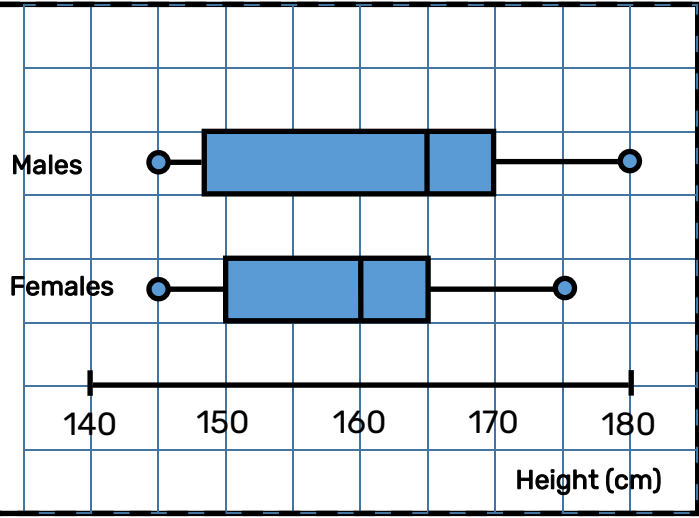


Robot Maths - Making a call about the population

Example:

Riley took a **sample** of the heights of males and females in his year and drew box plots to compare them.

Can he say for certain that the males are taller than the females for the **population**?



Yes



Do the boxes overlap?

No



Do one or both of the medians lie within the each other's box?

Yes



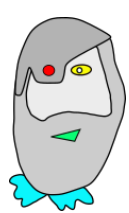
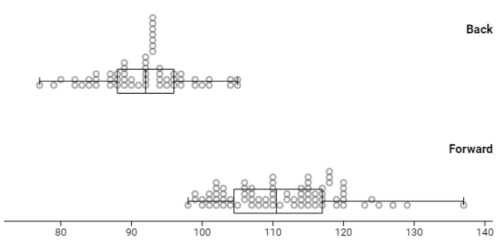
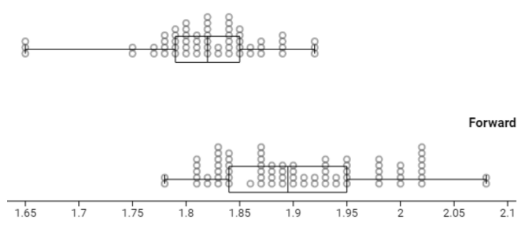
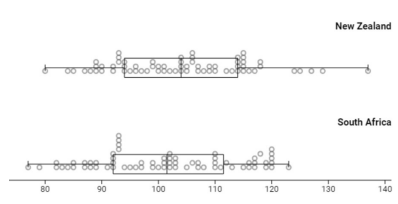
We **cannot** conclude that one population is larger than the other because the medians lies within the middle 50% of the other sample

No



We **can** conclude that the population of the group with the box furthest to the **right** will **are likely** to be larger on average

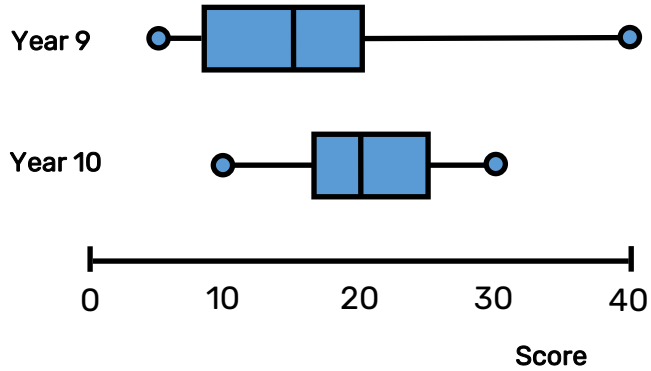
We **can** conclude that the population of the group with the box furthest to the **right** will tend to be larger on average



Robot Maths - Making a call about the population

Example:

Staci gave the students in Years 9 and 10 a general knowledge quiz and wants to compare the results. She takes a sample and draws box plots. What can she conclude about the scores of the populations?



Yes



Do the boxes overlap?

No



Do one or both of the medians lie within the each other's box?

Yes



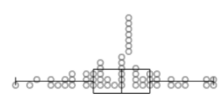
We **cannot** conclude that one population is larger than the other because the medians lies within the middle 50% of the other sample

No

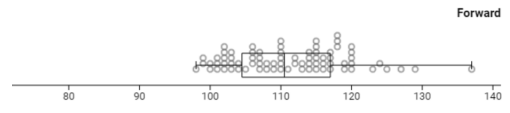


We **can** conclude that the population of the group with the box furthest to the **right** will **are likely** to be larger on average

We **can** conclude that the population of the group with the box furthest to the **right** will tend to be larger on average

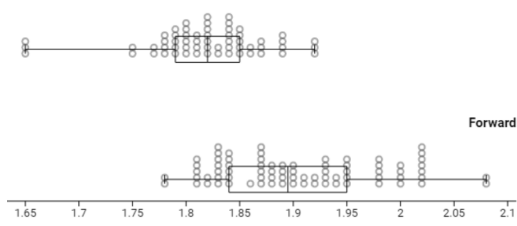
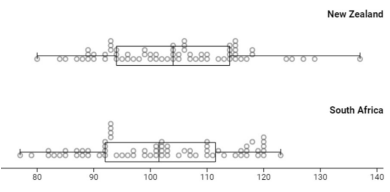


Back



Forward

Back



Forward

