

Netball tests

This task is about using survey data to estimate the probability of the next person's answer.



New Zealand are going to play Australia in a game of netball. Three students decide to ask people going to the game who they think will win. Each student chooses who they will ask at random.

- Chloe asks 100 people and 63 say New Zealand will win.
- Moana asks 200 people and 119 say New Zealand will win.
- Olivia asks 50 people and 29 say New Zealand will win.

Each student uses their results to estimate the probability that the next person they ask will say that New Zealand will win.

a) Write each estimate as a fraction or a decimal.

i) Chloe's estimate is _____

ii) Moana's estimate is _____

iii) Olivia's estimate is _____

Which student should have the best estimate of the proportion of people who say New Zealand will win?

- b)i) (A) Chloe.
(B) Moana.
(C) Olivia.
(D) All three students' estimates are just as good as each others.

Explain your answer to b) i)

ii) _____
