

Building Conceptions of Populations & Samples and the Connections between them

Karekare College

		gender		Row Summary
		female	male	
year	9	78	67	145
	10	108	48	156
	11	93	45	138
	12	72	26	98
	13	38	41	79
Column Summary		389	227	616

Variables:

Ethnicity	Age in years	Year level
Transport to school	Time to school in mins	Height in cm
How carry school bag	Weight of school bag in grams	Popliteal length in cm
Fitness level	Index finger length in mm	Ring finger length in mm

Card colour indicates gender.

C@S Survey questions for the variables.

- Are you: male; female
- How old are you?
(Note: year level was by default, this was automatically entered with the class entry.)
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- Which ethnic group do you belong to? Mark the space or spaces which apply to you.
New Zealand European; Māori; Samoan; Cook Island Maori; Tongan; Niuean; Chinese; Indian;
Other such as DUTCH, JAPANESE, TOKELAUAN. Please state:
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- How tall are you without your shoes on? Answer to the nearest centimetre.
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12. What is your popliteal length? Answer to the nearest centimetre. (The popliteal length is the measurement from the underside of the leg right behind the knee when seated, to the floor. Taken with shoes off.)
13. What is the length of your index finger to the nearest millimetre?
14. What is the length of your ring finger to the nearest millimetre?
15. What is the main method of transportation that you usually use to get to school?
(Pick one of the following: walk; car; bus; train; bike; boat; other)
16. How long does it usually take you to get to school? Answer to the nearest minute.
17. What is the weight of your school bag today? Answer to the nearest 100g.
(Weigh your school bag with all your books and other materials you brought to school today.)
18. How do you usually carry your school bag: (Two straps, one on each shoulder; One strap, over one shoulder; One strap, going diagonally across your body; Hold in your hand)
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27. How physically fit do you think you are? (Unfit; A little bit fit; Quite fit; Very fit)

Questions to investigate

- *Do the heights of Karekare College boys tend to be greater than the heights of Karekare College girls?*
- *Do the popliteal lengths of Karekare College boys tend to be longer than the popliteal lengths of Karekare College girls?*
- *Do Karekare College students who walk to school tend to get there faster than Karekare College students who take the bus?*
- *Do Karekare College students who go by car to school tend to get there faster than Karekare College students who take the bus?*
- *Do Karekare College students who go by car to school tend to get there faster than Karekare College students who walk to school?*

Predict and draw the population distributions for the variable in the question. Show one population distribution relative to the other, eg. Heights of boys, heights of girls
Give a rough indication of the range of values expected.