















# Change Ahead!

You need ★ a classmate

Te Kura o Ruia Mai is planning to introduce a school uniform. The board surveys an equal number of students and parents to find out which of eight combinations of colours is the most popular.

Students Parents	Red	Yellow	Green	Blue
Grey	 			 
Black	 		 	  

## Activity One

1. Which data from the tally chart are these pairs of students using when they say:

i.

*Black's more popular than grey.*



*That's only true for the parents.*



ii.

*Blue and black is the most popular combination.*



*Maybe. But it's clear that students prefer red to blue.*



iii.

*We can ignore yellow and green.*



*But green and black was the second most popular parent combination.*

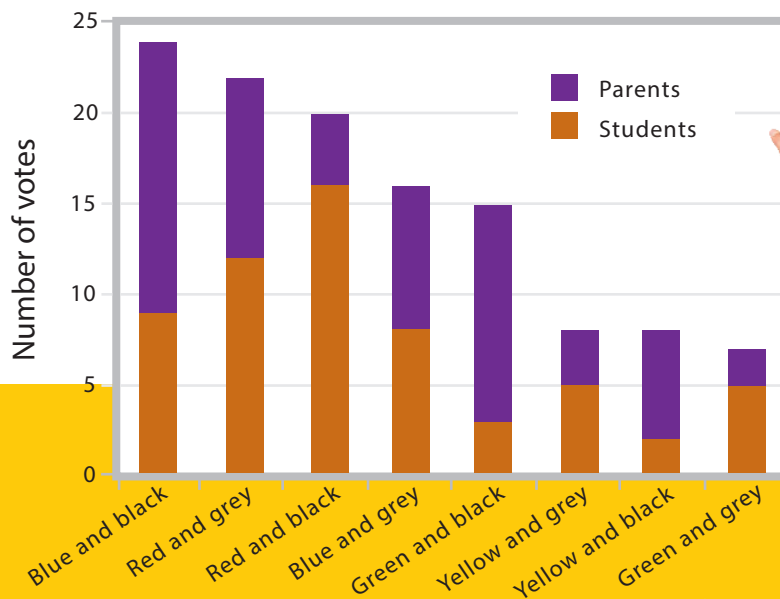


2. Paora says that red and grey might be the best choice. Which data supports his view?

## Activity Two

1. Ata makes this stacked bar graph from the data in the tally chart.
  - a. What information does it show clearly?
  - b. What information does it disguise?

Uniform Survey



*I think separate columns for parents and students might make it easier to compare votes.*

Colour combinations

2. Choose a feature of the information not shown in Ata's graph and create a graph that will show that information.

## Activity Three

1. Design a suitable form for a follow-up questionnaire on the uniform options. Who do you think it should be given to?
2. Discuss and compare forms with a classmate. What improvements can you make to your form as a result of this discussion?

*Before the board makes a decision, I think it should send out a second questionnaire with fewer options.*