

# Pēke Pīni — Bag of Beans

*Approach:* One to one

*Focus:* Probability.

*Resources:* Bag of beans: 8 blue, 8 green, 8 orange, recording book.

## Questions/instructions

**Take beans out of bag, and place on the table.**

Ringitia ngā pīni ki runga i te tēpu.

1. I want you to choose 6 beans to put back into the bag. Choose them so that I would always pull out a green bean if I put my hand in to take one out.

Māu e kōwhiri kia 6 ngā pīni, ka whakahoki ki roto i te pēke. Kōwhiria, kia taea e au te tango mai he pīni kākāriki i ngā wā katoa.

6 green beans in bag 83 55

**Place all beans on the table.**

Ringitia ngā pīni katoa ki runga i te tēpu.

% responses  
GE<sub>d</sub> MI

2. This time choose 8 beans to put back in the bag. Choose them so that I would have a 50 percent chance of pulling out an orange bean.

Ināianei kōwhiri kia 8 ngā pīni ka whakahoki ki roto i te pēke.

Kōwhiria, kia taea e au te tango mai he pīni ārani i te 50 % [50 ōrau] wā.

4 orange beans and 4 other beans 72 25

% responses  
GE<sub>d</sub> MI

## Commentary

Because of difficulties with communicating the statistical concepts in Māori, comparisons of performance are not appropriate.