

### ➤ Notes for parents. Activity next page.

The purpose of this task is to help your child to:

- use materials, drawings and numbers to work out a problem
- show different ways of solving a problem
- talk about how they solve a problem and why they did it that way they
- enjoy working out maths problems

You may like to print the task sheet on the next page.

Here's what to do:

- Have paper, a pencil or crayons/felt pens, some counting materials (for example, dried beans, buttons, bottle tops, counters) ready.
- Choose one problem that appeals to you and read it with your child. You may like to cut it out.
- Have your child explain to you what the problem is asking them to do it and how they might go about working it out.
- Notice that the problems are open-ended: that is there is no single right answer. Give your child the time and encouragement to solve each problem in as many ways as they can. There is no hurry to complete them.
- Listen carefully as your child explains their solution/s and tell them what you like about what they have done.
- Try another problem when you're both ready.



### He tauira kōrero Māori

Kia pānui tahi tāua i tēnei rapanga.	Let's read this problem together.
He aha te pātai i konei? He aha te ngako o te pātai?	What is the question here? What is the gist of this question?
He aha te mahi hei whakaoti i tēnei rapanga.	What do we need to do to solve this problem?
Tuhia he pikitia hei whakaatu i tēnei rapanga.	Draw a picture to show this problem.
Me pēhea te tūhura i tēnei rapanga.	How can we explore this problem.
Ehara i te mea kotahi anake te huarahi hei whakaoti i te rapanga. Kāore hoki te otinga kotahi hei whakautu i te pātai. He rapanga tuwhera.	There's not one way to solve this problem. There's also not one solution to answer the question. Its an open ended problem.



Josiah has a piece of string that measures 26 centimetres. He finds something at home that the string fits round *exactly*. Use your own string to find out what this could be.

Draw pictures of what you find.



Tapahia tētahi aho, kia 26cm te roa. Kimihia ētahi mea e 26cm te paenga huri āmio. Whakamahia tō aho hei āwhina i a koe ki te kimi i ēnei mea.

Angus cuts out a shape. He folds it in half. It is symmetrical. Draw what Angus's shape might look like.

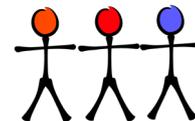


Ka tapahia e Ākina tētahi āhua. He hangarite te āhua. Ina whētua ka tau māriri tētahi taha ki runga i tētahi. Tuhia te āhua tērā pea i tapahia e Ākina.

When children in Viv's class got into groups, no one was left out. What might the size of the groups be if there are 18 people in Viv's class?

What if there are 20 children? 24 children? 30 children?

Write or draw your ideas for each.



18 ngā tamariki kei te akomana o Wiri. Ka whakarōpūngia ngā tamariki, ā, he ōrite te maha ki ia rōpū. Karekau tētahi tamaiti e toe ana. E hia pea ngā rōpū, ā, tokohia kei ia rōpū?

Mēnā e 20 ngā tamariki? Mēnā e 24 ngā tamariki? Mēnā e 30 ngā tamariki?

Tuhia ō whakaaro.



Manu's mum got a big bag of balloons for his party. Manu is putting some into little bags for his friends. He puts 5 in each bag. There are three left over. How many balloons could Manu's mum have bought?

Show how you know.



Nā te māmā o Manu i hoko ētahi poi hau. Ka whakawehea ngā poi hau kia 5 ki ia pēke iti. E 3 ngā poi hau e toe ana. Nō reira e hia pea ngā poi hau i hokona e te māmā o Manu?

Whakamāramatia mai ō whakaaro.

Can you make more than twenty five 3-digit numbers (from 100 to 1000) using any of the digits 1, 0, 2, 5, 3 and 6 only once in each number?

E taea ana ētahi tau mati-3 e rima te hanga (mai i te 100 ki te 999) mā te whakamahi i ngā mati 1, 0, 2, 5, 3 me te 6? Kia kotahi anake te whakamahinga o ia mati.

Write these on a piece of paper: read, watch TV, cook, be with friends, play sport, go shopping, play a game. Ask each person in your family to tick the two things they most like to do in their spare time.

Make a graph and compare results.



Tuhia ēnei mahi ki te whārangi:

pānui pukapuka, mātakitaki pouaka whakaata, tunu kai, noho tahi me ētahi hoa, hākinakina, hokohoko, tākaro.

Tonoa ngā tāngata o tō whānau ki te tohu i ētahi mahi e rua e tino pai ana ki a rātou.

Whakaaturia ngā raraunga ki tētahi kauwhata. He aha ētahi kōrero e kitea ana i tō kauwhata?

