Task notes | Drawing and thinking Te Whakaoti Rapanga

Y1

Notes for parents. Activity next page.

The purpose of the problems in 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
- 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 (eg. dried beans, buttons, bottle tops, counters) ready.




- Chose one problem that appeals to you and read it with your child. Have your child explain to you what the problem is asking them to do and how they might go about working it out.
- Give them time and encouragement to solve it. For some there may be several or many possible solutions.
- 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.
- Do adjust the numbers in a problem to suit your child's knowledge and understanding.

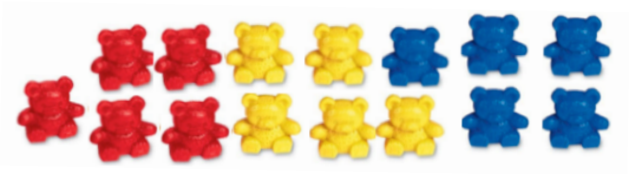
Hine's little brother is banging on the pots.
"Bang, crash, ding, bang, crash …"

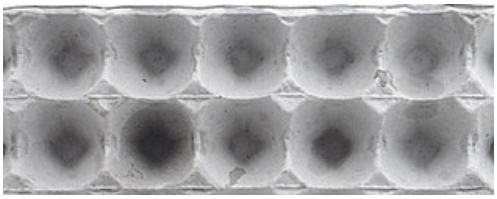
- If he keeps going in the same way,
- What's the next sound that he makes?
- What's the 10th sound that he makes?

Can you make up another **noise pattern** he might make?

Koinei ngā kupu hei whakaatu i paopao a Hine i ngā kōhua:
"pakō, pakē, pahū, pakō, pakē …"

- Mēnā ka pēnei tonu te haere o ēnei kupu, he aha te kupu e whai mai ana?
- He aha te kupu nama tekau?
- Māu e whakaaro tētahi atu tauira kupu hei whakaatu i te tangi o te paopao kōhua.





Henry has these plastic bears and he is using an egg carton as a bus. How many bears of each colour can fit the bus, with one bear in each 'seat'?

Show and write down ways he could do this, always using some bears of each colour.

He pea kirihou ēnei, me tētahi pouaka hēki. He pahi te pouaka hēki hei kawe i ngā pea kirihou. E whakanoho ana a Tama i ngā pea kirihou ki ngā wehenga o te pouaka hēki. Kotahi te pea ki ia wehenga.

- E hia ngā pea o ia tae, ka taea te whakanoho ki te pouaka hēki?
- He aha ētahi whakanōhanga rerekē i ngā pea?
- Me pēhea te tuhi i ngā whakanōhanga rerekē?

On the table at Pippa's party is a plate of 16 juicy orange quarters.
Pippa wonders how many oranges her mum cut up.

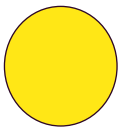
Show how Pippa could work this out.

Ka tapahia ētahi ārani kia hauwhā. 16 ngā hauwhā ārani katoa.

- E hia ngā ārani i tapahia?
- Me pēhea te whiriwhiri i tēnei rapanga?
- Tuhia he pikitia hei whakaatu i tēnei rapanga.

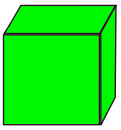
Hine, Henry, Pippa and Tui are looking at these shapes.

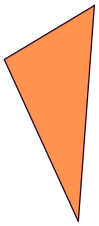
Hine says, "The *square* is the **odd one out**."
Henry says, "No, the *circle* is the odd one out!"
Pippa says, "No, it is the box. It's a *cube*!"
Tui says, "No the *triangle* is the odd one out."



Say who is right and why?

Titiro ki ēnei āhua e whā.





- Ko te kōrero a Hine: "Ko te tapawhā rite te mea rerekē."
- Ko tā Hēnare: "E kāo, ko te porowhita kē te mea rerekē."
- Ka mea a Pipi: "Ki a au, ko te pouaka kē te mea rerekē."
- Ko te kōrero a Tūī: "Kei te hē katoa koutou, ko te tapatoru te mea rerekē."
  Ko wai o rātou kei te tika?

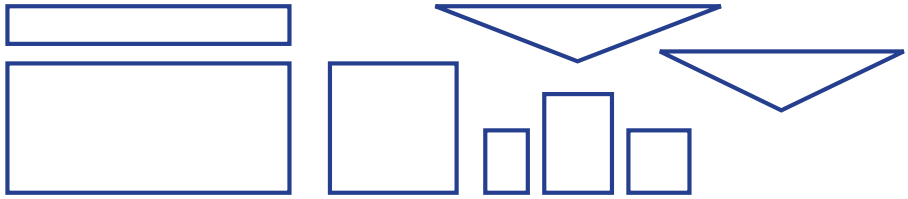
There are some kittens hiding under this blanket.

Altogether there are 15 legs and tails.
How many kittens are under the blanket?

Show how you know.

Kei raro i te paraikete ētahi ngeru e huna ana.
Hui katoa, 15 ngā waewae me ngā whiore. Nō reira, e hia ngā ngeru?

Tuhia he pikitia hei whakaatu i tō whakautu.



Pene draws a house. She uses all of these shapes, sometimes more than once.

What might Pene's house drawing look like?

Ka whakamahi a Pene i ēnei āhua katoa hei tuhi pikitia o tētahi whare. He nui ake i te kotahi te whakamahinga o ētahi o ngā āhua.

Māu e tuhi te pikitia o te whare o Pene.

Karl has some toy cars and a box he is using for a garage.

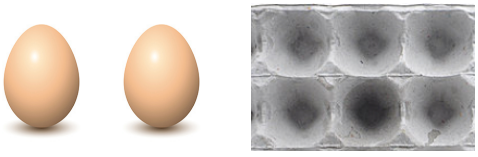
When he takes out 2 cars, fewer than 6 are left in the garage. How many might have been in the garage to start with? Show how you know.

Ko te pouaka nei hei whare mō ngā motukā o Kere. Ka tangohia e Kere ētahi motukā e rua. He iti iho i te ono ngā motukā kei roto tonu i te whare.

Nō reira e hia pea ngā motukā i roto i te whare i te tīmatanga? Whakamāramatia mai tō whakautu.

Sara has two eggs. She's going to put them into this egg box to keep them safe.

How many different ways can she arrange them in the box? Show how you know.



E rua ngā hēki a Hera. Kei te whakanoho ia i ngā hēki ki tēnei pouaka hēki.
E hia ngā whakanōhanga rerekē e taea ana? Tuhia he pikitia o ngā whakanōhanga rerekē.