Task notes |

Solve it or sink it Kia Taumaha Rawa, ka Totohu

Notes for parents. Activity next page.

The purpose of this task is to have your child:

to learn more about weight and area

Think about this:

- They need kitchen scales to check the weight (mass) of the marbles.
- As they make their boats, encourage them to think about whether the size of the boat (the area of the bottom of the boat) affects the weight (mass) it can hold.
- Does the size of the marbles make a difference?
- Does the arrangement of the marbles in the boat make a difference?
- Have them experiment with different sized boats and see if there is a pattern in the results. They'll need to record their results.
- They'll probably want to talk about this with someone in your family (rather than with a classmate).

He tauira korero Māori:

Ko tā tāua mahi i konei, he hanga waka pepa. Ka whakamātau i te maha o ngā māpere e totohu ai ngā waka.	Our activity here is to make paper boats. We'll test how many marbles are needed to sink the boats.
He haurua te rahi o tēnei waka i te waka tuatahi. Ki tōu whakaaro ka hia ngā māpere e totohu ai tēnei waka? He aha tō matapae?	This boat is half as big as the first. How many marbles do you think it will take to sink this boat? What is your prediction?
Mehemea ka rerekē te whakanoho i ngā māpere ki te takere o te waka, ka maha kē ake rānei ngā māpere e totohu ai te waka?	If you sit the marbles differently in the bottom of the boat, does that make a difference to how many marbles it would take to sink the boat?

Kia Taumaha Rawa, ka Totohu

