



Maths Week/ Wiki Pāngarau 2025



Survivor Series/Kia Mōrehurehu

Day 2 Set B

For students

WHAT TO DO FOR STUDENTS

- 1 You can work with one or two others. Teams can be different each day.
- 2 Do the tasks and write any working you did, along with your answers, in your maths book.
- 3 Your teacher will tell you how you can get the answers to the questions and/or have your work checked.
- 4 When you have finished each day, your teacher will give you a word or words from a proverb. You could ask your teacher to explain what a proverb is.
- 5 At the end of the week, put the words together in the right order and you will be able to find the complete proverb! Your teacher may ask you to explain what the proverb means.
- 6 Good luck.



THE SIZE OF IT! USING BENCHMARKS

We use 'benchmarks' in measurement to:

- **Estimate** measurements quickly and smartly (before measuring exactly),
- **Check** if an answer "makes sense," and
- **Choose** the best measuring unit or tool for the job.

Task 1: Estimate items using non-standard measurement tools

- a) Using two different types of materials in your classroom, estimate the length of your hand (fingertips to the bottom of the palm) and the length of your arm (fingertips to shoulder).

Length of your hand 	Length of your arm 
My estimate:	My estimate:
Actual Count:	Actual Count:
My estimate:	My estimate:
Actual count:	Actual count:

- b) Work with a partner to measure the length of your hand and the length of your arm with a strip of paper.

Cut the paper to the length of your hand and then cut another paper strip to the length of your arm. You will now have two strips of paper. These will be your measuring tools.

Follow the instructions below to complete Table 1.

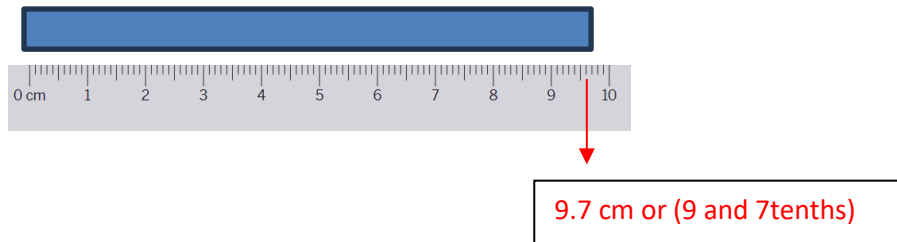
- c) You will use your two strips of paper to measure the items listed in Table 1 that can be found around your classroom. Choose and then measure one additional item (record the item and measurement at the bottom of the table).
- d) Column 1 are the items to measure, add your additional item in here at the bottom.
- e) Column 2 is where you record the measurement using the hand length strip of paper.
- f) Column 3 is where you record the measurement made using the arm length strip of paper.
Record how many whole strips of paper it takes to measure an item.

Table 1: Measuring classroom items using non-standard units

Items	Hand length strip	Arm length strip
Length of your writing book	2 hand lengths long	Half of my arm length
Width of your chair		
Length of your pencil		
Width of your classroom		

Task 2: Measuring using standard measurement units

- a) Measure the lengths of your strips of paper to the nearest centimetre using a ruler or measuring tape. Record the rounded measurement in centimetres on your strip of paper.



For example., if your hand measurement is 9.7 cm, round it to the nearest whole centimetre, so it will be 10 cm.

We will use the rounded measurements first or if you and your partner want a challenge, use the exact measurement unit (e.g., 9.7 cm).

Length of paper	Exact Measurement	Rounded Measurement
Hand	cm	cm
Arm	cm	cm

- b) Complete Table 2 to find an estimated length of each item in centimetres. These are the same items you used in Task 1.
- c) Now measure each item using a ruler or tape measure, and record these in the last column of Table 2.

Table 2: Measuring classroom items using standard units

Items	Hand length strip	Arm length strip	Measure item using a ruler or tape measure
<p>Example:</p> <p>Length of a writing book</p>	<p>2 hand lengths long</p> <p>(If your hand length is 10 cm long)</p> <p>$2 \times 10 \text{ cm} = 20 \text{ cm}$</p> <p>(Challenge: $2 \times 9.7 \text{ cm} = 19.4 \text{ cm}$)</p>	<p>Half of my arm length</p> <p>(If your arm length is 40cm long, then half would be 20cm)</p> <p>$0.5 \times 40 \text{ cm} = 20 \text{ cm}$</p>	
Length of your writing book			
Width of your chair			
Length of your pencil			

Items	Hand length strip	Arm length strip	Measure item using a ruler or tape measure
Width of your classroom			
<hr/>			

- d) Discuss with your partner and write what you noticed between your estimated length in cm using the paper strips and the length in cm using the measuring tape or rulers?