

MEASUREMENT SENSE— SET 4

A *Has a good idea how big different metric units are.*

1 cm— about the width of finger, and standard pencil or pen. The length of a staple.

1 m- about the same size of a metre ruler, about length of a guitar, baseball or cricket bat.

1 L- about the same size as a 1 litre milk bottle,, 1 litre bottle of laundry liquid or bodywash.

1 kg- about the same weight as 1kg block of cheese, 1kg bag of rice, a pineapple, a large hard cover book, a litre of water or a small laptop.

C *Can measure using commonly used metric units centimetre, metre, litre and kilogram.*

Can repeat units – until they get to the required length / weight / capacity.



How many cups fit in a 1 litre carton.

Start with an empty carton,

1 full cup, still space

2 full cups, still space

3 full cups, still space

4 full cups, there are 4 cups in a litre.

How many metres is it from this table to the door?

How many writing books weigh 2 kg?

E *Can estimate using commonly used metric units centimetre, metre, litre and kilogram.*

“My estimate is that the bucket will hold 5 litres of water, I know a milk bottle holds two litres and this is just a bit bigger than that.

B *Can create a measuring device from a non standard unit, can mark the numbers beginning with zero.*

How many pencil sharpeners long?

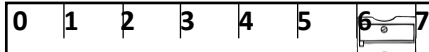
Start with zero



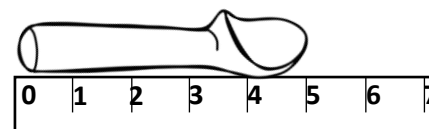
Put unit down, draw a line and write 1 to mark end.



Continue moving the unit and repeat.



Measure objects with placing base of object at 0.



The ice cream scoop is 5 pencil sharpeners long.

d *They can partition a unit of measure, and measure a half unit*

Partition units – add a $\frac{1}{2}$ or a partial unit to get a more accurate weight, length, or capacity.



4 Lemons

Too light

Maybe try

another lemon

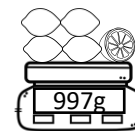


5 Lemons

Too heavy

Will try halfway

in-between



4.5 Lemons

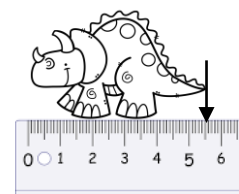
997g is pretty

much 1kg

“There is about 4 $\frac{1}{2}$ lemons in a kg.”

Measure a half unit – know that a $\frac{1}{2}$ is between two metric units. E.g. can measure 2.5cm, 1.5m, 3.5L or 4.5kg

‘This dinosaur is between 5cm and 6cm it is 5.5cm long’



Note: Note: Temperature and time have been forgotten from the learning progression framework so we have placed them where we see is best based on the NZC.

- Can read time to the hour, half past, quarter past, and quarter to on Digital and analogue clocks.
- Can work out if an activity or action would take hours or minutes to complete.
- Know how long 1 minute and 2 minutes is by watching the seconds hand go around on a analogue clock or watching a digital timer or digital clock.