Measurement Sense– Set 4

Ⓐ *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.

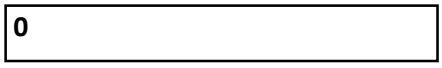
1 L- about the same size as a 1 litre milk bottle,, 1 litre bottle of laundry liquid or bodywash.

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.

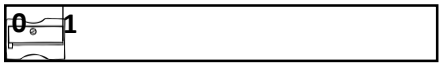
Ⓑ *Can create a measuring device from a non standard unit, can mark the numbers beginning with zero.*

How many pencil sharpeners long?

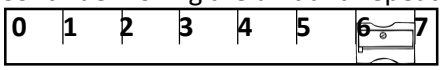
Start with zero



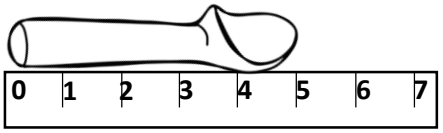
Put unit down, draw a line and write 1 to mark end.



Continue moving the unit and repeat.



Measure objects with placing base of object at 0.



The ice cream scoop is 5 pencil sharpeners long.

Ⓒ *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?

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

Partition units – add a ½ or a partial unit to get a more accurate weight, length, or capacity.

4 Lemons
Too light
Maybe try another lemon

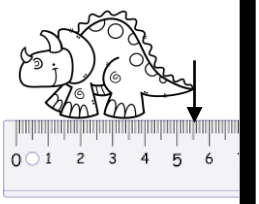
5 Lemons
Too heavy
Will try halfway in-between

4.5 Lemons
997g is pretty much 1kg

"There is about 4 ½ lemons in a kg."

Measure a half unit – know that a ½ 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'



Ⓔ *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.

Note: Temperature and time have been forgotten from the learning progression frame work so I have placed them where I see is best fit.
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.

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