Year 3 — 3.1 Place Value

National curriculum objectives:

- count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number, including in the context of scales and units of measure
- recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
- compare and order numbers up to 1000, including measure
- identify, represent and estimate numbers using different representations
- read and write numbers up to 1000 in numerals and in words

Key Vocabulary

number- numeral, digit
count- count (up) to, count on (from, to), count back (from, to), forwards, backwards
count in ones, twos, fives, tens, threes, fours, eights, fifties and so on to hundreds
equal to- equivalent to, is the same as, as many as
more, greater, bigger most
less- few, fewer, least
odd- even, pair
multiple of, factor of
predict- continue
pattern- sequence, rule, relationship
> **greater than**
< **less than**
place value- stands for, represents
exchange
compare
order
size
last, last but one
before, after, next, between, half-way between, above, below

Possible assessment questions:

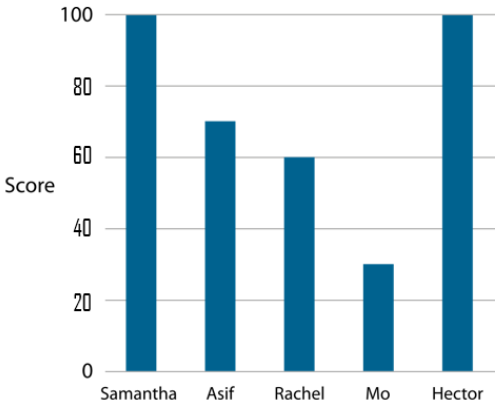
What interval does the score go up in?

Did any children score the same number of points? How do you know?

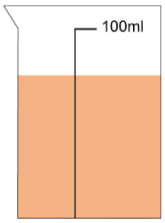
Can Asif have scored 80 points? Why not? How many points did Asif score?

How much more did Samantha score than Asif?

How much less did Rachel score than Hector?



How many 50cm lengths of wood can I cut from a 3m plank?

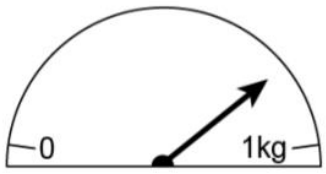


How much water could be in the jug?

What amount of water could NOT be in the jug? Explain.

The tree outside Cecily's house in 308cm tall. How much further would it have to grow to reach the bottom of Cecily's bedroom window, at 3m 68cm?

Estimate the mass, in grams, shown on this weighing scale.

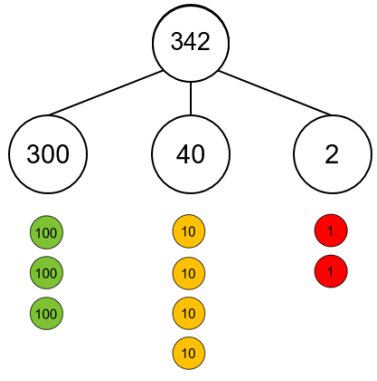


$3 + 500 + 40 = \square$

$20 + \square + 3 = 823$

$846 - \square - 40 = 800$

Key representations:



Part-whole models

Gattegno chart

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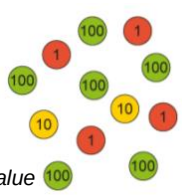
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



Place value counters

Place value chart

100s	10s	1s
3	4	2

Range of number lines