

Western Australia — Number Strand

	UMI Level	Understand Numbers		Understand Operations	Calculate
Level 1	Level 1	Reads and writes small whole numbers, using them to say how many things there are.			
Level 2	Level 2-3	(a) Reads, writes and counts with whole numbers to beyond 100, using them to compare collection sizes and describe order.	(b) Understands the meaning of <i>half</i> and <i>quarter</i> .	Understands the meaning and connections between counting, number partitions, addition and subtraction and uses this understanding to represent situations involving all four basic operations.	Counts, partitions and regroupes in order to add and subtract 1- and 2-digit numbers, drawing mostly on mental strategies for 1-digit numbers.
Level 3	Level 3	(a) Reads, writes, counts with and compares whole numbers into the thousands.	(b) Reads, writes and understands the meaning of unit fractions, flexibly partitioning quantities to make equal parts.	Understands the meaning, use and connections between the four operations on whole numbers, and uses this understanding to choose appropriate operations.	Adds and subtracts whole numbers and multiplies and divides by 1-digit whole numbers, drawing mostly on mental strategies for doubling, halving, adding to 100, and additions and subtractions readily derived from basic facts.
Level 4	Level 4-5	(a) Reads, writes, counts with and compares whole numbers into the millions and decimals (equal number of places).	(b) Reads, writes and understands the meaning of fractions and for readily visualised fractions, shows equivalence between them.	Understands the meaning, use and connections between the four operations on whole and decimal numbers, and uses this understanding to choose appropriate operations (whole multipliers and divisors).	Calculates with whole numbers (at least multipliers and divisors to 10), drawing mostly on mental strategies to add and subtract 2-digit numbers and for multiplications and divisions related to basic facts.

Level 5	Level 6-7	(a) Reads, writes and understands the meaning, order and relative magnitude of whole and decimal numbers and negative integers.	b) Reads, writes and understands the meaning, order and relative magnitude of any fractions, straightforward ratios and percentages, and knows the more common equivalences between them.	Understands the meaning, use and connections between the four operations on whole, decimal and fractional numbers, and uses this understanding to choose appropriate operations, including where fractional multipliers and divisors are required.	Calculates with whole numbers, decimals and fractions (well-known equivalences, whole number multipliers and divisors), drawing mostly on mental strategies for whole numbers and readily visualised fractions.
Level 6	Level 7+	Reads, writes and understands the meaning and relative magnitude of positive and negative rational numbers and numbers expressed with integer powers.			Calculates with positive and negative numbers, decimals, fractions and integer powers, using mostly mental strategies including for frequently used fractions and percentages of amounts.