

My mathematical journey

What do I need to remember from before?

- Multiplication and division (NP3)
- Multiplying by composing and decomposing (NP3)
- Multiples and factors (NP3)

*Mathswatch clip in brackets

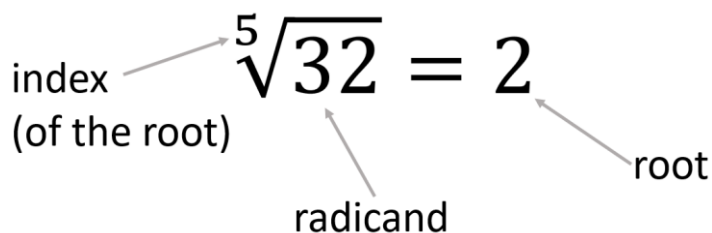
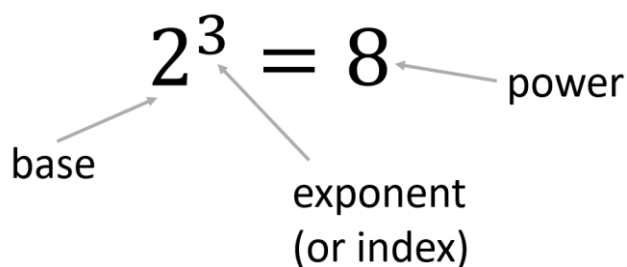
What will I learn about in this unit?

- Repeated multiplication
- Powers and roots
(MW N25)
- Prime numbers
(MW N30a)
- Composing and decomposing primes
(MW N30b)

Where does this lead?

- Order of operations (NP5)
- Directed numbers (NP6)
- Quadratics (A11)
- Index laws (NP15)
- Exponential growth (NP16)

Key words and symbols: what I need to say and write accurately



The "radical" or "root" symbol: $\sqrt{\quad}$

Fingertip facts: what I need to learn by heart

The first fifteen square numbers:

Square number	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	13 th	14 th	15 th
Value	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225

The first ten cube numbers:

Cube number	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th
Value	1	8	27	64	125	216	343	512	729	1000

The prime numbers less than 100:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97