

Date: Day 5, 3.1.2 | Simplifying Exponents, negative exponents and the power of 10.

Our number system is the decimal system.

↓
means ten

Decimal system is a base 10 system.

↓
based on 10

	Thousands	Hundreds	tens	ones/ units	tenths	Hundredths	Thousandths
place value	1000	100	10	1	$\frac{1}{10}$ 0.1	$\frac{1}{100}$ 0.01	$\frac{1}{1000}$ 0.001
	$1 \times 10 \times 10 \times 10$	$1 \times 10 \times 10$	1×10	1	$1 \div 10$	$1 \div 10 \div 10$	$1 \div 10 \div 10 \div 10$
exponential	1×10^3	1×10^2	1×10^1	1×10^0	$\frac{1}{10}$ 10^{-1}	$\frac{1}{10^2}$ 10^{-2}	$\frac{1}{10^3}$ 10^{-3}
	10^3	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}



10 times larger

($\times 10$) and add a power of 1
(add an exponent)



10 times smaller

($\div 10$) and subtract a power of 1
(subtract an exponent)