

Powers with Base Ten

Using base Ten

		Ten-Millions	Millions	Hundred-Thousands	Ten-Thousands	Thousands	Hundreds	Tens	Ones
$10^1 =$	$10 \times 1 =$							1	0
$10^2 =$	$10 \times 10 =$						1	0	0
$10^3 =$	$10 \times 10 \times 10 =$					1	0	0	0
$10^4 =$	$10 \times 10 \times 10 \times 10 =$				1	0	0	0	0
$10^5 =$	$10 \times 10 \times 10 \times 10 \times 10 =$			1	0	0	0	0	0
$10^6 =$	$10 \times 10 \times 10 \times 10 \times 10 \times 10 =$		1	0	0	0	0	0	0
$10^7 =$	$10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10 =$	1	0	0	0	0	0	0	0

Example:

Expand Notation and Power Notation.

Expanded Notation:

$$23487 = (2 \times 10000) + (3 + 1000) + (4 \times 100) + (8 \times 10) + (7 \times 1)$$

Power Notation:

$$23487 = (2 \times 10^4) + (3 + 10^3) + (4 \times 10^2) + (8 \times 10^1) + (7 \times 1)$$

Expand these numbers using power notation:

i. $21478 =$

ii. $35471 =$

iii. $26423 =$

iv. $89561 =$