Indices and Laws of Indices

The index of a number shows how many times a number is multiplied by itself. The index is written as a superscript to a number. The number itself is known as a base. Plural of index is indices. Index is also known as power or exponent.

base $\longrightarrow$ 2^3 $\longleftarrow$ Index (power or exponent)

$$2^3 = 2 \times 2 \times 2 = 8$$

Without using calculator find the value of:

$2^3 =$	$4^2 =$	$2^2 =$	$9^2 =$	$7^2 =$	$3^2 =$	$4^2 =$
$7^0 =$	$6^3 =$	$2^5 =$	$4^3 =$	$3^0 =$	$6^2 =$	$8^3 =$
$6^4 =$	$2^6 =$	$3^5 =$	$1^2 =$	$7^2 =$	$3^2 =$	$4^2 =$
$7^3 =$	$8^2 =$	$2^5 =$	$9^1 =$	$3^0 =$	$5^2 =$	$7^3 =$
$2^3 =$	$4^3 =$	$2^4 =$	$6^2 =$	$7^2 =$	$3^5 =$	$5^3 =$
$1^9 =$	$6^4 =$	$6^3 =$	$8^3 =$	$3^0 =$	$6^2 =$	$2^5 =$
$6^4 =$	$2^7 =$	$3^5 =$	$9^3 =$	$7^2 =$	$3^2 =$	$4^2 =$
$3^4 =$	$8^0 =$	$2^7 =$	$7^2 =$	$3^0 =$	$5^2 =$	$7^4 =$