

## Exponent and Square Numbers – I

1. Write the base, exponent, expanded form, and the value of each number in the first column.

Number	Base	Exponent	Expanded Form	Value
$2^4$	2	4	$2 \times 2 \times 2 \times 2$	16
$3^2$				
$5^4$				
$6^2$				
$7^3$				
$10^6$				

2. Write in exponent form using the base of 10.

- 10
- 1,000
- 100,000
- 1,000,000,000
- 10,000,000,000,000

Solution:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

3. Find the value of  $n$ .

- $5^n = 5^3$
- $10^n = 1,000$
- $2^n = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$
- $n^3 = 8^3$
- $16^n = 4^4$

Solution:

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

4. Complete the table. Find the square value.

Number	Square	Expanded Form	Square Value
2	$2^2$	$2 \times 2$	4
3	$3^2$		
5	$5^2$		
6	$6^2$		
7	$7^2$		
100	$100^2$		

5.  $10^{3n} = 10^{30}$ . What is the value of  $n$ ?

- 3
- 10
- 30
- 0

Solution:

6. Square of 23 is:

- $2^{23}$
- $23^2$
- $23 \times 2$
- $100 \times 23$

Solution: