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NCERT Class 6 Solutions: Knowing Your Numbers (Chapter 1) Exercise 1.1 – Part 1

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Q-1 Fill in the blanks:

1. 1 lakh _____ ten thousand
2. 1 million _____ hundred thousand
3. 1 crore _____ lakh
4. 1 crore _____ million
5. 1 million _____ lakh

Solution:

Refer the following table to understand the Indian system and how it is converted to International system of numbering.

Hindi	Indian figure	Power notation	International figure	International Names
one	1	10^0	1	One
ten	10	10^1	10	Ten
one hundred	100	10^2	100	One hundred
one thousand	1,000	10^3	1,000	One thousand
ten thousand	10,000	10^4	10,000	Ten thousand
one lakh (also lac)	1,00, 000	10^5	100,000	One hundred thousand
ten lakh	10,00, 000	10^6	1,000, 000	One million
one crore	1,00, 00,000	10^7	10,000, 000	Ten million
ten crore	10,00, 00,000	10^8	100,000, 000	One hundred million
one arab or one hundred crore	1, 00,00, 00,000	10^9	1, 000,000, 000	One billion
ten arab	10, 00,00, 00,000	10^{10}	10, 000,000, 000	Ten billion
one kharab	1, 00, 00,00, 00,000	10^{11}	100, 000,000, 000	One hundred billion
ten kharab	10, 00, 00,00, 00,000	10^{12}	1, 000, 000,000, 000	One trillion

one neel	1, 00, 00, 00,00, 00,000	10^{13}	10, 000, 000,000, 000	Ten trillion
ten neel	10, 00, 00, 00,00, 00,000	10^{14}	100, 000, 000,000, 000	One hundred trillion
one padm	1, 00, 00, 00, 00,00, 00,000	10^{15}	1, 000, 000, 000,000, 000	One quadrillion
ten padm	10, 00, 00, 00, 00,00, 00,000	10^{16}	10, 000, 000, 000,000, 000	Ten quadrillion
one shankh	1, 00, 00, 00, 00, 00, 00,00, 00,000	10^{17}	100, 000, 000, 000,000, 000	One hundred quadrillion
ten shankh	10, 00, 00, 00, 00, 00, 00, 00,00, 00,000	10^{18}	1, 000, 000, 000, 000,000, 000	One quintillion
Table Explaining the Relationship between Indian and International System of Numbering				

1. 1 lakh $10 (= 10^1)$ ten thousand

(1 *lakh* = 1,00,000 And ten thousand = 10,000)

So, $10,000 \times 10 = 1,00,000 = 1 \text{ lakh}$

- ***Ten Thousands* = $10 \times 10 \times 10 \times 10 = 10,000 = 10^4$**
- ***Lakh* = $10 \times 10 \times 10 \times 10 \times 10 = 1,00,000 = 10^5$**

1. 1 million $10 (= 10^1)$ hundred thousand

(1million = 10,00,000 And 1hundred thousand (*lakh*) = 1,00,000)

- ***Millions(10 lakh) =***
 $10 \times 10 \times 10 \times 10 \times 10 \times 10 =$
 $10,00,000 = 10^6$
- ***1 hundred thousand (lakh) =***
 $10 \times 10 \times 10 \times 10 \times 10$
 $= 1,00,000 = 10^5$

So, $1,00,000 \times 10 = 10,00,000$

1. 1 crore $100 (= 10^2)$ lakh

(1crore = 1,00,00,000 And *lakh* = 1,00,000)

- ***Lakh*** = $10 \times 10 \times 10 \times 10 \times 10 = 1,00,000$
 $= 10^5$
- ***Crore*** = $10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
 $= 1,00,00,000 = 10^7$

So, $1,00,000 \times 100 = 1,00,00,000$

1.1 crore $10 (= 10^1)$ million

(1 crore = 1,00,00,000 And million (ten lakh) = 10,00,000)

- ***Ten Lakh(Million)***
$$= 10 \times 10 \times 10 \times 10 \times 10 \times 10$$
$$= 10,00,000 = 10^6$$
- ***Crore*** $= 10 \times 10 \times 10 \times 10 \times 10 \times 10 \times 10$
$$= 1,00,00,000 = 10^7$$

So, $10,00,000 \times 10 = 1,00,00,000$

1.1 million $10 (= 10^1)$ lakh

(1million = 10,00,000 And *lakh* = 1,00,000)

- ***Ten Lakh(Million)***
$$= 10 \times 10 \times 10 \times 10 \times 10 \times 10$$
$$= 10,00,000 = 10^6$$
- ***Lakh*** $= 10 \times 10 \times 10 \times 10 \times 10 = 1,00,000$
$$= 10^5$$

So, $1,00,000 \times 10 = 10,00,000$