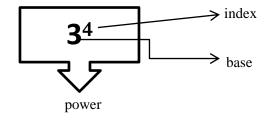


Unit: - Indices

No. of Periods : 4

When a number is multiplied repeatedly by the same number when written in a concise way is called index form.

Example : - 5 x 5 x 5 =
$$5^3$$



Show in index form.

Product	Index Form	How it is read
3 x 3 x 3 x 3	3 ⁴	Three to the power four
2 x 2 x 2 x 2 x 2		
6 x 6		
9 x 9 x 9		
4 x 4 x 4 x 4 x 4 x 4		
7 x 7 x 7 x 7		

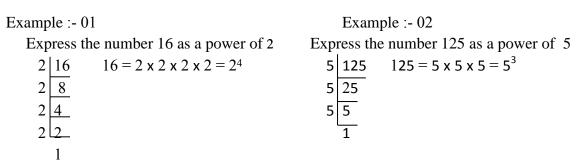
Finding the value of a power.

Example :- 2) Find the value of
$$2^3 \times 3^2$$

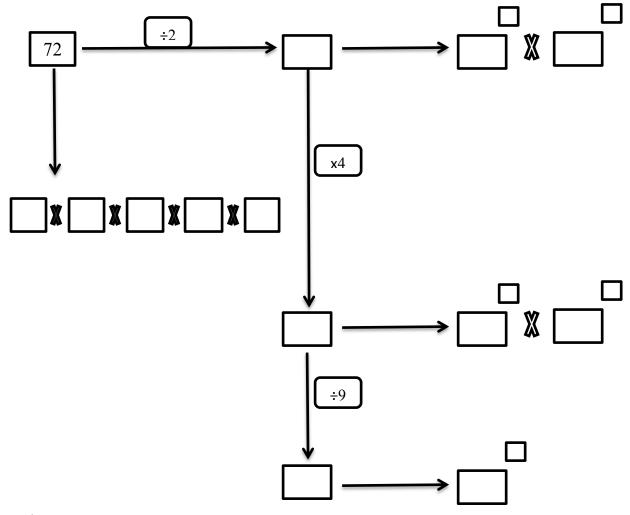
 $2^3 \times 3^2 = 2 \times 2 \times 2 \times 3 \times 3$
 $= 4 \times 2 \times 3 \times 3$
 $= 8 \times 3 \times 3$
 $= 24 \times 3$
 $= 72$

• Complete the exercise 24.1 in your text book given in the page number 149 and 150.

Represending a number as a power of a given number.



- ❖ Complete the exercise 24.2 in your text book given in the page number 151.
- Fill in the blanks using the experience you got from this lesson.



❖ Do the miscellaneous exercises in your text book given in the page number 152.