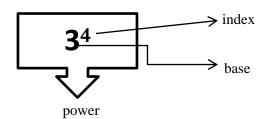
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## **Unit : - Indices**

No. of Periods : 04

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

Example : -  $5 \times 5 \times 5 = 5^3$ 



Show in index form.

Product	Index Form	How it is read
3 x 3 x 3 x 3	3 <sup>4</sup>	Three to the power four
2 x 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 x 4		
7 x 7 x 7 x 7		

## Finding the value of a power.

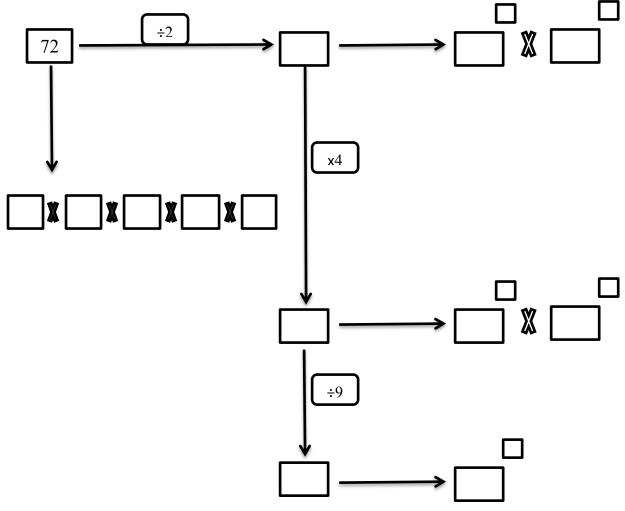
Example :- 1) Find the value of  $2^4$   $2^4 = 2 \times 2 \times 2 \times 2$   $= 4 \times 2 \times 2$   $= 8 \times 2$ = 16 Example :- 2) Find the value of  $2^3 \times 3^2$   $2^3 \times 3^2 = 2 \times 2 \times 2 \times 3 \times 3$   $= 4 \times 2 \times 3 \times 3$   $= 24 \times 3 \times 3$   $= 24 \times 3$ = 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.

Example :- 01	Example :- 02
Express the number 16 as a power of 2	Express the number 125 as a power of 5
$2   16 \qquad 16 = 2 \times 2 \times 2 \times 2 = 2^4$	5 125 125 = 5 x 5 x 5 = $5^3$
2 8	5 25
2 4	5 5
2 2	1
1	

- 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.