



Grade 6

Mathematics

Unit : 24 - Indices

- Answer all questions.

1. Complete the following table.

Index \ Base	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>	( ) <sup>2</sup>
2								
3								
4								
5								
6								
7								
8								
9								
10								

2. i) What is four times three equal to?  
 ii) What is four to the power three equal to?  
 iii) Find the difference of the above two answers.  
 iv) Write two suitable numbers to fill in the following cages.

$$\square \quad \square \\ 2 \quad = \quad 4$$

3. i) What is twelve times three equal to?  
 ii) What is twelve to the power three equal to?

4. Fill in the blanks.

i)  $(\dots\dots^2) + (\dots\dots^2) = 35$       ii)  $(\dots\dots^2) + (\dots\dots^2) = 41$

5. i) Express 72 as a product of prime numbers.  
 ii) Write it in index notation.

6. Find the value.  $2^4 \times 5^2$

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