



INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS



Subject : Mathematics	Topic : Exponents and Powers	Date of Worksheet : 30/05/2019
Resource Person: Mrs Geetha Girish	Date : _____	
Name of the Student : _____	Class & Division : VII	Roll Number : ____

S.No.	Section A(Basic Skills)	Marks
1	Find the value of $(-8)^3$	1
2	Find the value of $(3^0 - 2^0) \times (3^0 + 2^0)$	1
3	Which is greater? 3^2 or 2^5	1
4	Simplify $5^2 \times 5^0$	1
Section B		
5	Express 1080 in exponential notation	2
6	Express 121×243 as a product of prime factors only in exponential form	2
7	Simplify $\{(9^4)^2 \times 3^8\} \times 2^8$	2
8	Write the following in standard form. a) 432000000 b) 72105.4	2
9	Simplify and express each of the following in exponential form. a) $49^4 \div 7^3$ b) $\frac{2 \times 5^3 \times 13^7}{10 \times 13^5}$	3
10	Simplify $\frac{125 \times 8^3 \times 1000}{8 \times 5^3 \times 10^2}$	3
11	Evaluate $\frac{15^4 \times 18^3}{3^3 \times 5^2 \times 12^2}$	3
12	Simplify $\frac{8^3 \times 9^5 \times 25^4}{3^3 \times 4^2 \times 15^7}$	3
Section C(Hot Questions)		
13	If $\left\{\frac{3}{5}\right\}^3 \left\{\frac{3}{5}\right\}^6 = \left\{\frac{3}{5}\right\}^{2x-1}$ find the value of x	3

14	If $4^{4x+1} = \frac{1}{64}$ find the value of x	3
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