INDIAN SCHOOL NIZWA – WORKSHEET

MATHEMATICS
CH: 11 EXPONENTS AND POWERS

Name: _____ Date: _____ Class: VII Sec: ___

1.	The value of $((-3)^2)^3$ is _____
2.	The exponential form of $3 \times 3 \times a \times a \times a \times a \times b \times b$ is ____
3.	Find the value: $(7)^2 - (4^3) - (3^0 + 110^0 - 3214^0)$
4.	The value of given exponential expression is _____(Write the answer in exponential form) $3^3 + 3^3 + 3^3 + 3^3 + 3^3 + 3^3 + 3^3 + 3^3 + 3^3$
5.	$\textit{The value of } \left((2^2)^4 \times 7^2\right) \div (4^3 \times 7) \textit{ is}$ ____
6.	The result of $\frac{5 \times 3^5 \times 2^4}{9 \times 4^2}$ *is* ____
7.	$(-1)^{400} + (-1)^{2117} - (-1)^{500} =$ ____
8.	Simplify $(4^7)^0 + (-5)^3 + 9^2$
9.	Which is greater? $((-3)^4 - 6^3)$ or $(-3^4 + 6^3)$
10.	The normal form for 8.234154×10^4 is _____
11.	Express as a product of prime factors only in exponential form: 1296×125
12.	Simplify: $(4^7)^0 + [(-2)^3]^3 + (9^2)^0$

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13.	The scientific notation for 28372.987 is _____
14.	The sum of the powers of prime factors of 64 x 54 is _____.
15.	The teacher gives one problem as homework on Sunday, 2 problems on Monday,4 problems on Tuesday and so on. How many problems will the students get on Friday?
16.	If 7^3 is 343, then find 7^4 with only one multiplication.
17.	The numbers 1,5,25,125,625 …. are each powers of what number?
18.	If $1^4 = 1$, then what is 1^{100}?
19.	Express the number appearing in the following statements in standard form: a) Speed of light in vacuum is 300,000,000 m/s. b) The diameter of the earth is 1,27,56,000 m.
20.	Find the number from each of the following expanded forms: a) $7 \times 10^5 + 7 \times 10^4 + 5 \times 10^2$ b) $8 \times 10^4 + 5 \times 10^1 + 9 \times 10^0$