



Wada Nirmiti Education Society's
GURUKUL GLOBAL SCHOOL
WORKSHEET

SUB: MATHS

LESSON: 2 – POWER PLAY

STD: VII

NAME: _____ ROLL No: _____

DATE: _____

Q. 1. Multiple Choice Questions:

1. If the thickness of a paper is 0.002 cm after 1 fold, what will it be after 8 folds?

- A. 0.256 B. 0.512 C. 1.024 D. 2.048

2. $2^2 \times 6^2$ equals to:

- A. 124 B. 144 C. 156 D. 196

Q. 2. Solve the following questions.

1. Express 5400 and 1600 as a product of prime factors in exponential form.

2. Write the number 0.00056 in scientific notation.

3. Simplify: (i) $10^{-3} \times 10^5$ and (ii) $18^2 \times 6^3$

4. A lock has 4 slots, each can take digits 0–9. How many possible codes are there?

5. If a pond triples its lotus count daily, and has 81 lotuses on Day 4, how many did it have on Day 1?

6. A ladder is built to reach a height of 500 km, with each step 25 cm apart. How many steps are required?

7. The population of a city is 4.8×10^6 . If each person owns 3 mobile phones on average, express the total number of phones in scientific notation.

8. Find the units digit of 7^{224} and 6^{324} .

9. If $p^4 \times p^6 = p^{10}$, evaluate $2^5 \times 5^5$ using the rule $(m^a \times n^a) = (mn)^a$ and convert the value exponential form to simple form.

10. A person walks 20 km daily. How many days will it take to walk a distance equal to the circumference of Earth (40,000 km)?

