

DELHI PUBLIC SCHOOL JAMMU

Session 2025-26

Assignment - 2

Class: VIII

Subject: Maths

Topic: Exponents and Powers

Choose the correct option in Q1

Q1: Find the value of $\left[\left\{\left(\frac{-1}{3}\right)^{-2}\right\}^{-2}\right]^{-1}$ by choosing one correct option.

a. 81

b. 729

c. 124

d. 27

Q2: By what number should $(-2)^{-2}$ be multiplied so that the product may be equal to $\frac{1}{100}$?

Q3: If the size of 1000 animal cells is $1525 \times 10^{-8}mm$, then find the size of 10^5 animal cells together.

Q4: Find the value of $(x - y)^x$, if $2^x \times 3^y = 576$.

Q5: If $4^{x+1} - 4^x = 24$, what is the value of $(2x)^x$?

Q6: Simplify: $2^1 - 2^{-1} + 2^1 - 2^{-1} + 2^1 - 2^{-1} + 2^1 - 2^{-1} + 2^1 + \dots \dots \dots 100 \text{ terms}$.