

CLASS – VIII

Maths

Date:-17/04/2020

CHAPTER 2 - EXPONENTS & POWERS

→ Watch the online videos “Exponents and Powers -Lecture 1” from Optimum Online E-Learning Platform and try to comprehend the concepts of Exponents & powers. After that try to solve the questions given in your assignment.

1. Find the multiplicative inverse of followings: i. 3^{-2}

ii. 7^{-8}

iii. 10^{-80} iv.

$\left(\frac{2}{15}\right)^{-10}$ v. $($

$\frac{-5}{10})^{-5}$

2. Simplify and write in exponential form:

i. $(-3)^{-2} \times (-3)^{-8} \times (-3)^6$

ii. $(a)^{-12} \times (a)^8 \times (a)^{-5}$

3. Find the values of following:

i. $(\frac{1}{1})^0 + (\frac{1}{1})^{-2} + (\frac{1}{1})^{-2}$

ii. $[(\frac{1}{1})^{-2} + (\frac{1}{1})^{-3}] \div (\frac{1}{1})^{-2}$

iii. $(9^2 - 4^3) \times (\frac{-3}{17})^2 \times \frac{34}{9}$

4. Find value of X, if:

$$\left(\frac{2}{3}\right)^{-5} \times \left(\frac{2}{3}\right)^{12} = \left(\frac{2}{3}\right)^{3x-2}$$

5. Write the following in standard form: i.

0.0000389

ii. 19280000

iii. $\frac{0.000462}{10^7}$

6. Express the following numbers in usual form:

i. 2.08×10^{-5}

ii. 381624×10^{-6}

iii. 9×10^{-7}

7. By what number should $(\frac{-3}{2})^{-1}$ be divided so that the quotient may be equal to $\frac{1}{6}$.

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