

DELHI PUBLIC SCHOOL, JAMMU

Date: 4th May-2021

Assignment- 1

Class: VIII

Subject: Maths

Topic : 1) Rational Numbers

2) Exponents and Powers

Based on your understanding of the E-Lectures –cum-PPTs, videolinks and other e-resources shared with you, answer the following questions.

Q1: The value of $(2)^{-3}$ is _____.

(1 mark)

Q2: The value of $(1^{-2} + 2^{-2} + 3^{-2})^{-1}$ is

a) 36 b) $\frac{1}{36}$ c) $\frac{49}{36}$ d) $\frac{36}{49}$

(1 mark)

Q3: Multiplicative inverse of $\frac{-1}{2}$ is

a) 2 b) -2 c) $\frac{1}{2}$ d) 1 (1mark)

Q4: Simplify $(3^4 \div 3^8) \times 3^{-5}$ and write the answer in exponential form with positive exponent. (2 marks)

Q5: Find the value and express the rational number in standard form:-

$\{-3 \div (\frac{-63}{15})\}$ (2marks)

Q6: a) Represent $\frac{-5}{7}$ and $\frac{3}{7}$ on a number line.

b) A shirt needs $2\frac{1}{4}$ m cloth. How many shirts can be made from $31\frac{1}{2}$ m cloth? (3 marks)

Q7: By what number should $(18)^{-1}$ must be divided to get the quotient $(6)^{-1}$. (3 marks)

Q8: The mass of Earth is 5.97×10^{24} kg and mass of Moon is 7.35×10^{22} kg. What is the total mass. (3marks)

Q9: Find ten rational numbers between $\frac{-1}{6}$ and $\frac{-5}{7}$. (4 marks)

You-tube Links:

1. <https://youtu.be/W72fv0nvUIM>

2. <https://youtu.be/eDB8Jt3v37o>

3. **Note:**

1. Due date of submission: 07th May, 2021

2. Email/send your assignment as a PDF file to the concerned teachers, whose email ID's/Whatsapp no. are shared as follows:



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3. Students must mention their name, class/section and date in their assignments
4. Your assignment will be marked for Internal /Term assessments. Therefore, it is necessary for you to submit it on time.

