Global Academy School

Work sheet

Class 8

Maths

Q1. Evaluate:

1.
$$\left(\frac{3}{5}\right)^3$$

$$2.\left(\frac{-3}{4}\right)^4$$

$$2.\left(\frac{-3}{4}\right)^4$$
 $3.\left(\frac{-2}{5}\right)^5$

4.
$$5^{-3}$$

$$5.\left(\frac{1}{3}\right)^{-4}$$

6.
$$\left(\frac{5}{2}\right)^{-3}$$

Q2 Evaluate:

$$1)\left(\frac{2}{3}\right)^3 \times \left(\frac{2}{3}\right)^2$$

$$2)\left(\frac{4}{7}\right)^5 \times \left(\frac{4}{7}\right)^{-3}$$

$$3\left(\frac{8}{5}\right)^{-3} x \left(\frac{8}{5}\right)^2$$

$$4.\left(\frac{3}{8}\right)^{-2}\times\left(\frac{4}{5}\right)^{-3}$$

Q3. Simplify:-

$$1.(2^{-1} \times 5^{-1})^{-1} \div 4^{-1}$$

ii)
$$\left(\frac{1}{2}\right)^{-2} + \left(\frac{1}{3}\right)^{-2} + \left(\frac{1}{4}\right)^{-2}$$

iii) Evaluate
$$(5^{-1} \times 3^{-1})^{-1} \div 6^{-1}$$

Q4. Express each of the following numbers in standard form

Q5. Express each of the following numbers in one standard form

Q6. Write each of the following numbers in usual form

1.
$$3 \cdot 74 \times 10^5$$

$$2.6 \cdot 912 \times 10^{8}$$

$$3. 4 \cdot 1253 \times 10^7$$

4.
$$2 \cdot 5 \times 10^4$$

5.
$$5 \cdot 17 \times 10^6$$

6.
$$1 \cdot 679 \times 10^q$$

Q7. The diameter of the sun is $(1 \cdot 4 \times 10^q)_m$ and the diameter of the earth is $(1 \cdot 2756 \times 10^7)_m$. Show that the diameter of the sun is nearly 100 times the diameter of the earth.

Q8. By what number should $\left(\frac{-2}{3}\right)^{-3}$ be divided so that the quotient may be $\left(\frac{4}{27}\right)^{-2}$

Q9 if
$$5^{2x+1} + 25 = 125$$
, Find the value of X

Q10. Find the value of x for which

$$\left(\frac{5}{3}\right)^{-4} \times \left(\frac{5}{3}\right)^{-5} = \left(\frac{5}{3}\right)^{3^{x}}$$