# CHENNAI PUBLIC SCHOOL 

Anna Nagar * Chennai -600 101

## Weekend Worksheet - 2014-15

MATHEMATICS


1. Find the value of the following:
(a) $\left(\left(^{-1} / 4\right)^{3}\right.$
(b) $(-2 / 7)^{2}$
(c) $3^{4} \times(-1)^{173}$

2 Simplify using laws of exponents:
(a) $\frac{5^{3 x} \times 25}{5^{x}}$
(b) $\frac{2^{5} \times 3^{4} \times 5}{3 \times 16}$
(c) $\left[\left(5^{2}\right)^{3} \times 5^{4}\right] \div 5^{5}$
(d) $2^{0} \times 5+(-3)^{0} \times 9^{0} \times 4^{0}$
3. Expres e following in standard form:
(a) $70,30,000$
(b) 750000000000
(c) 8765.43
4. Convert into power notation:
(a) ${ }^{-1} / 343$
(b) $-1 / 81$
(c) ${ }^{512} / 1331$
5. The age of the Earth is $4,600,000,000$ years. Write the number in standard form.

