5. Express the number appearing in the statement in standard form :

3. Evaluate : $\frac{(81)^3 \times (25)^5 \times (14)^7 \times 4^7}{(80)^3 \times (12)^5 \times 7^7 \times (15)^7}$

"The population of India was about 1,027,000,000 in march 2001."

4. By what number should $(-15)^{-2}$ be divided so that the quotient is equal to (-5)?

Mathematics In Everyday Life-7

A: Choose the correct alternatives in each of the following : (1 × 5 = 5)
1. Which is greater :
$$3^{2}, 2^{3}, 3^{3}, 2 \times 3^{2}$$

(a) 3^{3} (b) 2^{3} (c) 3^{2} (d) 2×3
2. 512 as a power of 2 can be expressed as
(a) 2^{6} (b) 2^{7} (c) 2^{8} (d) 2^{9}
3. $\frac{-64}{343}$ in the exponential form is
(a) $\left(\frac{-3}{4}\right)^{3}$ (b) $\left(\frac{-4}{7}\right)^{3}$ (c) $\left(\frac{-7}{4}\right)^{3}$ (d) $\left(\frac{-2}{7}\right)^{3}$
4. In the expression $2^{3} \times y^{3} = 64$, the value of y is
(a) 0 (b) 1 (c) 2 (d) 3
5. The distance between two planets is $38,40,00,000$ m, we can express this distance as
(a) 38.4×10^{6} m (b) 384×10^{7} m (c) 3.84×10^{8} m (d) 3.84×10^{9} m
B: Solve the following : (3 × 5 = 15)
1. Simplify : $\frac{3^{5} \times 10^{5} \times 25}{5^{7} \times 6^{5}}$

MATHEMATICS IN EVERYDAY LIFE-7

Chapter 6 : Exponents and Powers

CORDO

ASSESSMENT

Max.Marks: 20

5)