

CLASS VIII: CHAPTER - 12 **EXPONENTS AND POWERS**

1. Fill in the Blank $a^m \div a^n = a^{\dots\dots\dots}$ Where m and n are natural numbers:-
(a) mn (b) m + n (c) m - n (d) m ÷ n
2. Express $(2a)^4$ in exponential form.
(a) $4a^3$ (b) $16a^4$ (c) $2a^4$ (d) $8a^4$
3. The value of $\frac{1}{3^2}$ is equal to _____.
(a) $\frac{1}{9}$ (b) 1 (c) -6 (d) $\frac{1}{3}$
4. Find the value of 11^2
(a) 22 (b) 9 (c) 121 (d) 13
5. In simplified form $(3^0 + 4^0 + 5^0)^0$ is equals to
(a) 12 (b) 3 (c) 12 (d) 1
6. Find the value of $\left(\frac{2}{3}\right)^2$
(a) $\frac{4}{9}$ (b) $\frac{9}{4}$ (c) $\frac{-2}{9}$ (d) 0
7. In standard form 52,00,00,000 is equal to _____.
(a) 5.2×10^7 (b) 5.2×10^8 (c) 52×10^8 (d) $52 \times 100,00,000$
8. Usual form of the expression 10^4 is given by _____.
(a) 100,00 (b) 1,0000 (c) 10×10^4 (d) 10,000
9. 1 micron is equals to _____.
(a) $\frac{1}{1000000}$ m (b) 10^6 m (c) 10^5 m (d) 10^7 m
10. The approximate distance of moon from the earth is 384,467,000 m and in exponential form this distance can be written as _____.
(a) $3.84,467 \times 10^8$ m (b) $384,467 \times 10^{-8}$ m (c) $384,467 \times 10^{-9}$ m (d) $3.844,67 \times 10^{-13}$ m
11. 7×10^{-5} m is the standard form of which of the following _____.
(a) 0.0007 m (b) 0.000007 m (c) 0.0000007 m (d) 0.00007 m
12. The standard form of 4050000 is given by _____.
(a) 4.05×10^6 (b) 40.5×10^9 (c) 405×10^6 (d) 4.05×10^{-6}

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1. In standard form 56700000 is written as _____.
(a) 5.67×10^7 (b) 567×10^7 (c) 5.67×10^5 (d) 567×100000
2. Usual form of the expression 9×10^{-5} is given by _____.
(a) 0.00009 (b) 0.000009 (c) 90×10^{-4} (d) 0.09×10^{-3}
3. The number 86,800,000,000,000,000,000,000 Kg is equal to _____.
(a) 8.68×10^{25} Kg (b) 868×10^{23} Kg (c) 86.8×10^{-25} Kg (d) 868×10^{-23} m
4. Charge of an electron is 0.000,000,000,000,000,000,16 coulomb and in exponential form it can be written as _____.
(a) 16×10^{-18} coulomb (b) 1.6×10^{-21} coulomb
(c) 1.6×10^{-19} coulomb (d) 16×10^{-21} coulomb
5. 13×10^{-7} Km is the standard form of which of the following _____.
(a) 0.000000013 Km (b) 0.0000013 Km (c) 0.0000000000013 Km (d) 0.00000000013 Km
6. The standard form of 9,030,000,000 is given by _____.
(a) 9.03×10^9 (b) 90.3×10^7 (c) 903×10^6 (d) 9.03×10^{-9}
7. Which one of the following is the value of 3^5 ?
(a) 3 (b) 15 (c) 2 (d) 243
8. Find the value of $5^0 \times 7^0 \times 3^0$.
(a) 1 (b) $\frac{1}{24}$ (c) 6 (d) $\frac{1}{5} \times 7 \times 3$
9. 64 in exponential form is _____.
(a) 2^6 (b) 16^2 (c) $\frac{1}{8^2}$ (d) 2^4
10. The value of $2^0 \times 3^0 \times 4^0$ is _____.
(a) 1 (b) 0 (c) 24 (d) None of these
11. 1024 in exponential form is _____.
(a) 2^6 (b) 16^2 (c) $\frac{1}{8^2}$ (d) none of these
12. The value of $\frac{2^2}{3^2}$ in the exponential form is _____.
(a) $\left(\frac{2}{3}\right)^4$ (b) $\left(\frac{2}{3}\right)^2$ (c) $\left(\frac{2}{3}\right)^0$ (d) none of these