



INDIAN SCHOOL NIZWA - WORKSHEET

Chapter 2 Power Play

Name: _____

Class :VIII Sec: _____

Multiple choice questions

1. The value of 3^4 is _____
(a) 12 (b) 27 (c) 81 (d) 64
2. If $2^x = 8^y$, then the relation between x and y is
a) $x = y$ b) $x = 2y$ c) $x = 3y$ d) $3x = y$.
3. If $a^2 \times a^3 \times a^4 = a^k$, then the value of k is
a) 7 b) 8 c) 9 d) 10
4. If $9^x = 3^8$, then $x =$
a) 4 b) 6 c) 8 d) 2
5. Simplify: $(2^{-3} \times 4^2) \div 8$.
a) 1 b) 2 c) 4 d) $1/4$
6. If $5^x = \frac{1}{125}$, then $x =$
a) -2 b) 2 c) -3 d) 3
7. Simplify : $(a^2b^{-3})^3 \div (a^4b^{-2})$
a) a^2b^{-7} b) a^2b^{-9} c) a^2b^{-10} d) a^2b^{-5}
8. If $(x^2)^3 \times (x^3)^2 = x^k$ find k.
a) 10 b) 9 c) 12 d) 8
9. Which of the following is equal to $(a^m \times b^m)^n$?
a) $a^{(mn)} \times b^{(mn)}$ b) $(ab)^{(mn)}$ c) both (a) and (b) d) neither
10. $(2^5 \div 2^3)^2 =$
a) 2^4 b) 2^8 c) 2^{10} d) 2^6
11. Which of the following equals $2^3 \times 2^2$
a) 2^6 (b) 2^5 (c) 4^2 d) 2^{10}
12. The reciprocal of 3^4 is
a) 4^3 b) $\frac{1}{3^4}$ c) 3^{-4} d) both (b) and (c)
13. Which of the following statements is **true**?
a) $2^3 = 3^2$ b) $10^2 = 100$ c) $4^3 = 12$ d) $5^2 = 20$
14. $10^0 =$
(a) 0 (b) 10 (c) 1 (d) Not defined
15. If $a = 2$ find the value of a^{-3}
(a) 8 (b) $1/8$ (c) -8 (d) 0