

CHAPTER-2 | Power Play

QUIZ
PART-101. What is 4^0 ?

- A. 0
B. 1
C. 4
D. 16 (B)

Explanation: Any non-zero number raised to power 0 is 1.

2. What is 4^{-1} ?

- A. 4
B. $\frac{1}{4}$
C. 16
D. $\frac{1}{16}$ (B)

Explanation: Negative power means reciprocal.

3. What is 4^5 ?

- A. 256
B. 1024
C. 4096
D. 16384 (B)

Explanation: $4^5 = 1024$

4. What is 4^8 ?

- A. 65,336
B. 65,536
C. 16,384
D. 4,096 (B)

Explanation: $4^8 = 65,536$.

5. $4^8 \div 4^3$ is equal to:

- A. 4^5
B. 4^{11}
C. 4^4
D. 4^3 (A)

Explanation: Same base division means subtract powers: $8-3=5$.

6. $4^3 \times 4^2$ is equal to:

- A. 4^1
B. 4^5
C. 4^6
D. 4^8 (B)

Explanation: Same base multiplication means add powers: $3+2=5$.

7. $4^7 \times 4^{-2}$ is equal to:

- A. 4^5
B. 4^9
C. 4^{-5}
D. 4^{14} (A)

Explanation: Add exponents: $7+(-2)=5$.

8. How many times larger is 4^7 than 4^5 ?

- A. 4^1
B. 4^2
C. 4^3
D. 4^4 (B)

Explanation: $4^7 \div 4^5 = 4^2$

9. 343×2401 is equal to:

- A. 7^5
B. 7^6
C. 7^7
D. 7^8 (C)

Explanation: $343 = 7^3$ and $2401 = 7^4$, so product is 7^7

10. $\frac{16807}{49}$ is equal to:

- A. 7^2
B. 7^3
C. 7^4
D. 7^5 (B)

Explanation: $16807 = 7^5$ and $49 = 7^2$, so quotient is 7^3