

CHAPTER-2 | Power Play

QUIZ
PART-03

1. What is $6 \times 6 \times 6 \times 6$ in exponential form?

- A. 6^2
B. 6^3
C. 6^4
D. 4^6 (C)

Explanation: 6 is multiplied by itself 4 times.

2. What is $y \times y$ in exponential form?

- A. y
B. y^2
C. $2y$
D. y^3 (B)

Explanation: $y \times y$ is written as y^2 .

3. What is $5 \times 5 \times 7 \times 7 \times 7$?

- A. $5^2 \times 7^3$
B. $5^3 \times 7^2$
C. $5^2 \times 7^2$
D. $5^3 \times 7^3$ (A)

Explanation: 5 appears 2 times and 7 appears 3 times.

4. What is 648 in prime exponential form?

- A. $2^3 \times 3^4$
B. $2^2 \times 3^4$
C. $2^3 \times 3^3$
D. $2^4 \times 3^2$ (A)

Explanation: $648 = 8 \times 81 = 2^3 \times 3^4$.

5. What is 405 in prime exponential form?

- A. $3^3 \times 5$
B. $3^4 \times 5$
C. $3^2 \times 5^2$
D. 2×3^4 (B)

Explanation: $405 = 81 \times 5 = 3^4 \times 5$.

6. What is 540 in prime exponential form?

- A. $2^2 \times 3^3 \times 5$
B. $2 \times 3^3 \times 5$
C. $2^2 \times 3^2 \times 5$
D. $2 \times 3^2 \times 5$ (A)

Explanation: $540 = 4 \times 27 \times 5 = 2^2 \times 3^3 \times 5$.

7. What is 2×10^3 ?

- A. 200
B. 2000
C. 20,000
D. 1000 (B)

Explanation: $10^3 = 1000$, so $2 \times 1000 = 2000$.

8. What is $7^2 \times 2^3$?

- A. 392
B. 196
C. 49
D. 56 (A)

Explanation: $7^2 = 49$ and $2^3 = 8$, so $49 \times 8 = 392$.

9. What is $(-3)^2 \times (-5)^2$?

- A. -225
B. 225
C. 15
D. -15 (B)

Explanation: $(-3)^2 = 9$ and $(-5)^2 = 25$, so $9 \times 25 = 225$.

10. What is $(-2)^5 \times (-10)^6$?

- A. 32,000,000
B. -32,000,000
C. 320,000
D. -320,000 (B)

Explanation: $(-2)^5 = -32$ and $(-10)^6 = 1,000,000$, so the product is -32,000,000.