

CHAPTER-4 | Quadrilaterals

QUIZ
PART-06

1. In the magical pond, lotuses double every:

- A. Hour
- B. Day
- C. Week
- D. Month

(B)

Explanation : The number of lotuses doubles every day.

2. If the pond is full on day 30, it was half full on:

- A. Day 15
- B. Day 28
- C. Day 29
- D. Day 30

(C)

Explanation: Since it doubles daily, one day before full it was half full.

3. Fully covered pond after 30 days can be written as:

- A. 20^{30}
- B. 30^2
- C. 2^{15}
- D. 30×2

(A)

Explanation: Doubling for 30 days gives 2^{30} .

4. Half-covered pond can be written as:

- A. 2^{30}
- B. 2^{29}
- C. 2^{15}
- D. 29^2

(B)

Explanation: Half of 2^{30} is 2^{29}

5. If lotuses triple every day, the base is:

- A. 2
- B. 3
- C. 4
- D. 5

(B)

Explanation : Tripling means multiplying by 3 each day.

6. $m^a \times n^a$ equals:

- A. $(m + n)^a$
- B. $(mn)^a$
- C. m^{a+n}
- D. n^{a+m}

(B)

Explanation : Same powers can be combined as $(mn)^a$

7. m^a/n^a equals:

- A. $(mn)^a$
- B. $(m + n)^a$
- C. $(m/n)^a$
- D. m^{a-n}

(C)

Explanation : Same powers in division combine as $(m/n)^a$.

8. $5^3 \times 2^2$ equals:

- A. 10
- B. 100
- C. 1000
- D. 10000

(C)

Explanation : $5^3 \times 2^3 = (5 \times 2)^3 = 10^3 = 1000$

9. $20^3/5^3$ equals:

- A. 16
- B. 64
- C. 48
- D. 32

(B)

Explanation : $20^3/5^3 = (20/5)^3 = 4^3 = 64$.

10. $10^2 \times 3^2/15^2$ equals:

- A. 2
- B. 4
- C. 6
- D. 8

(B)

Explanation : $10^2 \times 3^2/15^2 = (30/15)^2 = 2^2 = 4$.