

CHAPTER-2 | Power Play

QUIZ
PART-01

1. What happens to paper thickness after each fold?
- A. It becomes half
 - B. It doubles
 - C. It triples
 - D. It stays same (B)

Explanation : The thickness doubles after every fold.

2. This repeated doubling is called:

- A. Linear growth
- B. Exponential growth
- C. Square root
- D. Division (B)

Explanation: Multiplicative growth by repeated doubling is exponential growth.

3. What is the thickness after 10 folds?

- A. 1.024 cm
- B. 10.24 cm
- C. 0.1024 cm
- D. 102.4 cm (A)

Explanation: The table shows thickness after 10 folds is 1.024 cm.

4. After 26 folds, the thickness is approximately:

- A. 67 m
- B. 670 m
- C. 6.7 km
- D. 67 km (B)

Explanation: The chapter states that after 26 folds, thickness is about 670 m.

5. Which building is compared with 26 folds?

- A. Eiffel Tower
- B. Burj Khalifa
- C. Qutub Minar
- D. Taj Mahal (B)

Explanation : Burj Khalifa is compared with the paper thickness after 26 folds.

6. After 30 folds, paper thickness is about:

- A. 1.07 km
- B. 10.7 km
- C. 107 km
- D. 1070 km (B)

Explanation : After 30 folds, the thickness is about 10.7 km.

7. What is the thickness after 45 folds?

- A. 35,389.44 km
- B. 353,894.4 km
- C. 3,538.944 km
- D. 353.894 km (B)

Explanation : The table shows the thickness after 45 folds is about 353,894.4 km.

8. After 46 folds, the thickness is more than:

- A. 7,000 km
- B. 70,000 km
- C. 7,00,000 km
- D. 7 km (C)

Explanation : The chapter states it becomes more than 7,00,000 km.

9. After any 3 folds, thickness increases by:

- A. 2 times
- B. 4 times
- C. 8 times
- D. 10 times (C)

Explanation : $2 \times 2 \times 2 = 8$, so 3 folds make thickness 8 times.

10. After any 10 folds, thickness increases by:

- A. 100 times
- B. 512 times
- C. 1024 times
- D. 2048 times (C)

Explanation : 2 multiplied by itself 10 times equals 1024.