

CHAPTER-2 | Power Play

QUIZ
PART-11

1. Scientific notation uses a number between:

- A. 0 and 1
- B. 1 and 10
- C. 10 and 100
- D. 100 and 1000 (B)

Explanation: Scientific notation writes a number as a number between 1 and 10 multiplied by a power of 10.

2. 5900 in scientific notation is:

- A. 59×10^2
- B. 5.9×10^3
- C. 0.59×10^4
- D. 590×10^1 (B)

Explanation: $5900 = 5.9 \times 10^3$

3. 20800 in scientific notation is:

- A. 2.08×10^4
- B. 20.8×10^3
- C. 208×10^2
- D. 0.208×10^5 (A)

Explanation: The decimal moves 4 places left.

4. 80,00,000 in scientific notation is:

- A. 8×10^5
- B. 8×10^6
- C. 8×10^7
- D. 80×10^5 (B)

Explanation: $80,00,000 = 8,000,000 = 8 \times 10^6$

5. 59,853 in standard form is:

- A. 5.9853×10^4
- B. 59.853×10^3
- C. 0.59853×10^5
- D. 59853×10^0 (A)

Explanation: The decimal moves 4 places left.

6. 65,950 in standard form is:

- A. 6.595×10^4
- B. 65.95×10^3
- C. 659.5×10^2
- D. 0.6595×10^5 (A)

Explanation: The number before 10^n must be between 1 and 10.

7. 34,30,000 in standard form is:

- A. 3.43×10^5
- B. 3.43×10^6
- C. 34.3×10^5
- D. 0.343×10^7 (B)

Explanation: $34,30,000 = 3,430,000 = 3.43 \times 10^6$

8. Sun-Saturn distance 14,33,50,00,00,000m is:

- A. 1.4335×10^{11}
- B. 1.4335×10^{12}
- C. 14.335×10^{12}
- D. 0.14335×10^{13} (B)

Explanation: $14,33,50,00,00,000 = 1.4335 \times 10^{12}$

9. Sun-Earth distance 1,49,60,00,00,000m is:

- A. 1.496×10^{10}
- B. 1.496×10^{11}
- C. 1.496×10^{11}
- D. 1.496×10^{12} (B)

Explanation: The decimal moves 11 places left.

10. Which distance is the smallest?

- A. Sun to Saturn
- B. Saturn to Uranus
- C. Sun to Earth
- D. All are equal (C)

Explanation: 1.496×10^{11} is smaller than numbers with 10^{12} .