

CHAPTER-2 | Power Play

QUIZ
PART-16

1. This part mainly develops:

- A. Number sense
- B. Geometry
- C. Fractions
- D. Shapes (A)

Explanation: The learning outcome is "Number Sense".

2. Ant population used in previous part was about:

- A. 2×10^{14}
- B. 2×10^{15}
- C. 2×10^{16}
- D. 2×10^{17} (C)

Explanation: Ants were estimated as 2×10^{16}

3. Human population used was about:

- A. 8×10^7
- B. 8×10^8
- C. 8×10^9
- D. 8×10^{10} (C)

Explanation: Human population was about 8×10^9

4. Ants per human are about:

- A. 2.5×10^3
- B. 2.5×10^4
- C. 2.5×10^5
- D. 2.5×10^6 (D)

Explanation: $(2 \times 10^{16}) \div (8 \times 10^9) = 0.25 \times 10^7 = 2.5 \times 10^6$

5. A flock of starlings has 10,000 birds, which is:

- A. 10^2
- B. 10^3
- C. 10^4
- D. 10^5 (C)

Explanation: $10,000 = 10^4$

6. If starlings are 1.3×10^9 , number of flocks of 10,000 is:

- A. 1.3×10^4
- B. 1.3×10^5
- C. 1.3×10^6
- D. 1.3×10^7 (B)

Explanation: $(1.3 \times 10^9) \div 10^4 = 1.3 \times 10^5$

7. Estimated trees globally are:

- A. 3×10^{10}
- B. 3×10^{11}
- C. 3×10^{12}
- D. 3×10^{13} (C)

Explanation: The previous part states trees are about 3×10^{12}

8. If each tree has 10^4 leaves, total leaves are:

- A. 3×10^{14}
- B. 3×10^{15}
- C. 3×10^{16}
- D. 3×10^{17} (C)

Explanation: $(3 \times 10^{12}) \times 10^4 = 3 \times 10^{16}$

9. Roxie said she was how many days old?

- A. 4070
- B. 4840
- C. 5000
- D. 3650 (B)

Explanation: Roxie said, "I'm 4840 days old today."

10. Roxie's age in hours is:

- A. 116,160 hours
- B. 48,400 hours
- C. 11,616 hours
- D. 1,161,600 hours (A)

Explanation: $4840 \times 24 = 116,160$ hours.